CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, October 5, 1905.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close Sept.	Work.	Place.	On file.	See issue.
Oct.				
*10	Filtration plant	Toledo, O.	P. & S.	9-14
*10	Sewers	Norristown, Pa.	S.	9- 7
*11	Water main	Portland, Ore.	S.	9-14
14	Filling & gr'd'g	N. Orleans, La.	S.	9-28
*16	Water-works	Rolla, Mo.	P. & S.	9-14
16	Sewer s't'm	Cape Girardeau, Mo.	P. & S.	9-14
21	Artesian well	New Orleans, La.	S.	9-28
Jan.				
*2	Water system	Manila	P. & S.	9-21
*12	Sewer system	Manila	P. & S.	9-21
10	Lighting plant	Fayetteville, N.C.	S.	10- 5

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Oct. 9. Electric equipment, Breese, Ill. ..... Sept. 28
Oct. 9. City lighting, Syracuse, N. Y. ..... Oct. 5
Oct. 10. Lighting plant, Fayetteville, N. C. ..... Oct. 5
Oct. 11. Gasoline lamps, etc., Baltimore, Md. ..... Oct. 5
Nov. 1. Generators, etc., Los Angeles, Cal. ..... Sept. 14
Advertised, Eng. News, Sept. 21 to Oct. 26.
Nov. 2. Water wheels, etc., Los Angeles, Cal. ..... Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 26.
Dec. 2. Water power, Porto Rico ..... Aug. 17
Advertised, Eng. News, Aug. 17to Sept. 14.

BRIDGES.

Oct. 6. Bridge, Midland, S. Dak. ..... Sept. 21
Advertised, Eng. News, Sept. 21.
Oct. 6. Bridges, Flandreau, S. Dak. ..... Sept. 28
Oct. 7. Steel bridge, Kansas City, Mo. ..... Sept. 28
Oct. 7. Bridge, Jefferson, O. ..... Sept. 21
Oct. 9. Bridges, Evansville, Ind. ..... Sept. 28
Oct. 10. Bridges, Napa, Cal. ..... Oct. 5
Oct. 10. Bridge approach, Columbus, O. ..... Sept. 21
Oct. 11. Bridges, steel, Stillwater, Okla. ..... Sept. 21
Oct. 14. Bridge, Ashland, O. ..... Sept. 28
Oct. 16. Bridges, San Jose, Cal. ..... Oct. 5
Oct. 19. Bridge, Newport, Ind. ..... Oct. 5
Oct. 21. Bridge, Dayton, O. ..... Oct. 5
Oct. 23. Bridges, Wichita, Kan. ..... Oct. 5
Oct. 24. Bridge, steel, Marion, O. ..... Oct. 5
Oct. 30. Bridge, Camden, N. J. ..... Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Jan. 1. Steel bridge, Pensacola, Fla. ..... Sept. 28

BUILDINGS.

Oct. 5. Court-house, Manhattan, Kan. ..... Sept. 14
Oct. 5. Buildings, Browning, Mont. ..... Sept. 14
Oct. 5. Buildings, Minnehaha Falls, Minn. ..... Sept. 21
Oct. 5. Building, Baltimore, Md. ..... Sept. 28
Oct. 6. Building, New London, Conn. ..... Sept. 28
Oct. 7. Hospital, Burlington, Vt. ..... Sept. 28
Oct. 7. Building, Shreveport, La. ..... Aug. 24
Oct. 9. Court-house, Carmel, N. Y. ..... Oct. 5
Advertised, Eng. News, Oct. 5.
Oct. 10. Court-house, Enid, Okla. ..... Sept. 21
Oct. 11. Building, brick, Washington, D. C. ..... Oct. 5
Oct. 12. Building, Fargo, N. Dak. ..... Sept. 7
Advertised, Engineering News, Sept. 7 and 14.
Oct. 13. Building, New London, Conn. ..... Sept. 21
Oct. 13. Window screens, etc., Ft. Meade, S. Dak. Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 14. Guard house repair, etc., Ft. Brady, Mich. Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 19.
Oct. 15. Buildings, Marietta, O. ..... Sept. 21
Oct. 16. Lighting fixtures, Ft. Monroe, Va. ..... Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 19.
Oct. 16. Court-house, Gretna, La. ..... Sept. 14
Oct. 17. Ice plant (Mfg. plants), Chilocco, Okla. Sept. 28
Oct. 18. Buildings, Harrisburg, Pa. ..... Oct. 5
Oct. 18. Hospital, Governor's Island, N. Y. ..... Oct. 5
Advertised, Eng. News, Oct. 5 and 12.
Oct. 18. Buildings, etc., Ft. Sam Houston, Tex. ..... Sept. 28
Oct. 18. Buildings, Vancouver Barracks, Wash. Sept. 28
Oct. 19. Buildings, Tomah, Wis. ..... Sept. 28
Oct. 19. Elevator and lifts, Lincoln, Neb. ..... Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 23. Jail cells, Oklahoma, Okla. ..... Oct. 5
Oct. 26. Roof and skylights, Washington, D. C. ..... Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 26.
Oct. 27. Buildings, Green Bay, Wis. ..... Sept. 28
Nov. 8. Electric light fixtures, Washington, D. C. Sept. 28
Advertised, Eng. News, Sept. 28 to Nov. 9.
Nov. 14. Post-office, Colorado Springs, Colo. ..... Sept. 21
Dec. 12. Capitol building, Bismarck, N. Dak. ..... Oct. 5
No date. Building materials, etc., Breen, Colo. ..... Sept. 14

WATER SUPPLY AND IRRIGATION.

Oct. 5. Laying pipe, Libertyville, Ill. ..... Sept. 28
Advertised, Eng. News, Sept. 28.
Oct. 5. Engine, pump, etc., Readstown, Wis. Sept. 28
Oct. 5. Piping, Peru ..... Aug. 17
Oct. 5. Air plant, Fort Worth, Tex. ..... Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Oct. 5. Infiltration gallery, Columbus, Ind. ..... Oct. 5
Oct. 6. Water-works, East Grand Forks, Minn. Sept. 21
Oct. 7. Water pipe, Yarmouth, Me. ..... Oct. 5
Oct. 9. Water-works, etc., Drummondville, Que. Oct. 5
Oct. 9. Reservoir, water mains, Orange, N. J. ..... Sept. 28
Advertised, Eng. News, Sept. 28.
Oct. 9. Water-works, Lakewood, N. Y. ..... Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 10. Purification works, Toledo, O. ..... Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 12.
Oct. 10. Water-works, Jacksonville, Tex. ..... Oct. 5
Oct. 10. Settling basins, St. Louis, Mo. ..... Oct. 5
Oct. 11. Mains, stop cocks, etc., New York, N. Y. Oct. 5
Oct. 11. Reservoir, Annapolis, Md. ..... Oct. 5
Oct. 11. Pipe and castings, Portland, Ore. ..... Sept. 14
Advertised, Eng. News, Sept. 14 and 28.
Oct. 11. Water main, Portland, Ore. ..... Sept. 14
Advertised, Eng. News, Sept. 14 and 28.
Oct. 11. Pipe, dam, Williamsburg, Pa. ..... Sept. 21
Advertised, Eng. News, Sept. 21.
Oct. 12. Water-works, Lyons Falls, N. Y. ..... Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 12. Water-works, Pleasant Grove, Utah ..... Oct. 5
Oct. 13. Stand-pipe, Grand Rapids, Mich. ..... Oct. 5
Advertised, Eng. News, Oct. 5.
Oct. 13. Pipe laying, filter sand, etc, Cincinnati, O. Sept. 21
Oct. 14. Shafts and tunnel, Kansas City, Mo. ..... Sept. 21
Advertised, Eng. News, Sept, 21 and 28.
Oct. 16. Water system, Rolla, Mo. ..... Sept. 14
Advertised Eng. News, Sept. 14 and 21.
Oct. 16. Water pipe, Los Angeles, Cal. ..... Oct. 5
Advertised, Eng. News, Oct. 5.
Oct. 18. Tank, tower, etc., Perrysburg, O. ..... Oct. 5
Advertised, Eng. News, Oct. 5 and 12.
Oct. 18. Water-works, etc., Milledgeville, Ga. ..... Sept. 14
Oct. 18. Water mains, Boulder, Colo. ..... Sept. 21
Oct. 19. Tubular wells, Fort Ethan Allen, Vt. ..... Oct. 5
Oct. 21. Artesian well, New Orleans, La. ..... Sept. 28
Oct. 23. Water-works, electric plant, India ..... Aug. 24
Oct. 24. Water-works, Ciudad Juarez, Mexico ..... Sept. 14
Oct. 26. Dam, canals, etc., Belle Fourche, S. Dak. Sept. 7
Oct. 28. Irrigation canals, Hood River, Ore. ..... Oct. 5
Advertised, Eng. News, Sept. 7 to Nov. 2.
Dec. 5. Yellowstone dam, Billings, Mont. ..... Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 26.
Jan. 2. Water-works, Philippines ..... Sept. 21
Advertised, Eng. News.
No date. Tunnel, pipe line, Harrisburg, Pa. ..... Oct. 5
Advertised, Eng. News, Oct. 5.

SEWERAGE.

Oct. 5. Sewer surveys, Versailles, Pa. ..... Sept. 28
Oct. 7. Pipe sewer, Des Moines, Ia. ..... Sept. 28
Oct. 9. Sewer, New Brunswick, N. J. ..... Oct. 5
Oct. 9. Sewers, Midland, Mich. ..... Oct. 5
Oct. 11. Sewers, Rockford, Ill. ..... Oct. 5
Advertised, Eng. News, Oct. 5.
Oct. 10. Purification plant, Glencoe, Ill. ..... Sept. 28
Advertised, Eng. News, Sept. 28.
Oct. 10. Sewers, Norristown, Pa. ..... Sept. 7
Advertised, Eng. News, Sept. 7 to Oct. 5.
Oct. 11. Sewers, Bismarck, N. Dak. ..... Oct. 5
Oct. 11. Brick sewer, Parkersburg, W. Va. ..... Sept. 28
Oct. 12. Sewage disposal plant, Reading, Pa. ..... Oct. 5
Advertised, Eng. News, Oct. 5.
Oct. 12. Sewers, etc., Jackson, Mich. ..... Oct. 5
Oct. 12. Sewer, Youngstown, O. ..... Oct. 5
Oct. 12. Pipe sewer, Green Bay, Wis. ..... Oct. 5
Oct. 12. Storm sewer, Williamsport, Pa. ..... Oct. 5
Advertised, Eng. News, Oct. 5.
Oct. 12. Drain, Portchester, N. Y. ..... Oct. 5
Oct. 14. Sewers, water mains, Waynesville, N. C. Oct. 5
Oct. 16. Main outfall sewer, Moorhead, Minn. ..... Oct. 5
Oct. 16. Sewer system, Cape Girardeau, Mo. ..... Sept. 14
Advertised, Eng. News, Sept. 14 and 21.
Oct. 16. Sewers, Cape May, N. J. ..... Sept. 28
Advertised, Eng. News, Sept, 28 and Oct. 5.
Oct. 20. Sewers, Grants Pass, Ore. ..... Sept. 28
Oct. 21. Sewer outfall, Fort Miley, Cal. ..... Oct. 5
Oct. 20. Sewers, Princeton, Ind. ..... Sept. 28
Oct. 20. Sewer system, Lake City, Fla. ..... Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 24. Sewers, Cleveland Heights, O. ..... Oct. 5
Oct. 26. Main sewer, etc., Portsmouth, O. ..... Oct. 5
Nov. 2. Purification works, Columbus, O. ..... Oct. 5
Advertised Eng. News, Oct. 5 to Nov. 2.
Jan. 12. Sewer system, Philippines ..... Sept. 21
Advertised, Eng. News.

STREETS AND ROADS.

Oct. 5. Paving, brick, Iola, Kan. ..... Sept. 28
Oct. 7. Roads, Crownpoint, Ind. ..... Sept. 21
Oct. 7. Paving, Stoughton, Wis. ..... Sept. 21
Oct. 10. Paving, Cincinnati, O. ..... Sept. 21
Oct. 11. Paving, etc., Brooklyn, N. Y. ..... Sept. 28
Oct. 11. Road, Harrisburg, Pa. ..... Oct. 5
Oct. 12. Paving, Findlay, O. ..... Oct. 5
Oct. 14. Paving and curbing, Zanesville, O. ..... Oct. 5
Oct. 14. Gravel roads, Danville, Ind. ..... Oct. 5
Oct. 14. Macadamizing, Norwood, O. ..... Oct. 5
Oct. 14. Cement walks, Washington, D. C. ..... Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Oct. 16. Roads and walks, Ft. Hancock, N. J. ..... Sept. 28
Oct. 16. Paving, Ft. Oglethorpe, Ga. ..... Oct. 5
Oct. 18. Roads, Harrisburg, Pa. ..... Oct. 5
Oct. 18. Paving, asphalt, Cincinnati, O. ..... Sept. 28
Oct. 18. Grading, Argenta, Ark. ..... Sept. 28
Oct. 18. Paving, brick, Moundsville, W. Va. ..... Sept. 28
Oct. 20. Paving, Green Bay, Wis. ..... Oct. 5
Oct. 23. Paving, Sherman, Tex. ..... Oct. 5
Oct. 24. Macadamizing, Cincinnati O. ..... Oct. 5
Nov. 1. Paving, Steelton, Pa. ..... Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 5.

MISCELLANEOUS CONTRACTS.

Oct. 6. Street cleaning, Middletown, O. ..... Sept. 28
Oct. 6. Dump boat, Wheeling, W. Va. ..... Sept. 14
Oct. 9. Dredging, Portland, Me. ..... Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 12.
Oct. 9. Box culvert, Lisbon, O. ..... Sept. 28
Oct. 9. Cables, Lynchburg, Va. ..... Sept. 28
Oct. 10. Ditch, Marshalltown, Ia. ..... Sept. 28
Oct. 10. Lock repair, Columbus, O. ..... Sept. 28
Oct. 10. Cable, motors, cement, etc., Wash., D. C. Sept. 28
Oct. 10. Cement, New York, N. Y. ..... Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 12.
Oct. 10. Machinery, Washington, D. C. ..... Sept. 7
Oct. 10. Harbor works, Egypt ..... Aug. 17
Oct. 10. Ammunition hoists, Washington, D. C. Sept. 21
Oct. 10. Garbage collection, Bridgeport, Conn. ..... Sept. 21
Oct. 10. Pier work, New York, N. Y. ..... Oct. 5
Oct. 11. Grading, soiling, etc., New York, N. Y. ..... Oct. 5
Oct. 11. Smoke stacks, New York, N. Y. ..... Oct. 5
Oct. 11. Pier work, Grand Rapids, Mich. ..... Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 12.
Oct. 11. Engineering instruments, Wash., D. C. Sept. 28
Oct. 12. Dredging, New York, N. Y. ..... Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 12. Dredging, Seattle, Wash. ..... Sept. 21
Oct. 13. Towers, tanks, etc., Washington, D. C. ..... Oct. 5
Advertised, Eng. News, Oct. 5 and 12.
Oct. 13. Ditchwork, Pocahontas, Ia. ..... Sept. 28
Oct. 14. Filling and grading, New Orleans, La. ..... Sept. 28
Oct. 14. Breakwater, Indian Head, P. E. I. ..... Sept. 28
Oct. 14. Dredging, Charleston, S. C. ..... Sept. 28
Advertised, Eng. News, Sept. 28.
Oct. 16. Dyke work, New York, N. Y. ..... Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 19.
Oct. 16. Pumps, boilers, beams, etc., Wash., D. C. Oct. 5
Oct. 16. Ditch work, Olivia, Minn. ..... Oct. 5
Oct. 16. Dredging, New York, N. Y. ..... Oct. 5
Advertised, eng. News, Oct. 5 and 12.
Oct. 17. Dredging, New York, N. Y. ..... Oct. 5
Advertised, eng. News, Oct. 5 and 12.
Oct. 17. Crane, Washington, D. C. ..... Sept. 21
Oct. 17. Cement, brick, etc., Porto Rico ..... Sept. 21
Oct. 17. Earth embankment, Roswell, N. Mex. ..... Aug. 24
Advertised, Eng. News, Aug. 24 to Oct. 5.
Oct. 17. Air hoist, motor, etc., Washington, D. C. Sept. 28
Oct. 17. Cement, rails, pipe, etc., Wash., D. C. ..... Sept. 28
Oct. 19. Ditch work, Moorhead, Minn. ..... Oct. 5
Oct. 21. Dredging, Washington, D. C. ..... Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 26.
Oct. 23. Rehandling machine, Philadelphia, Pa. ..... Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 19.
Oct. 23. Vacuum cleaning system, Lincoln, Neb. Oct. 5
Oct. 25. Concrete dock, Chicago, Ill. ..... Sept. 7
Oct. 25. Wharf, etc., California City Point, Cal. ..... Sept. 14
Advertised, Eng. News, Sept. 14 and 21.
Oct. 27. Rip-rap, sea wall, New York, N. Y. ..... Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 26.
Oct. 28. Earth removal, Portsmouth, N. H. ..... Oct. 5
Oct. 30. Dredging, Washington, D. C. ..... Oct. 5
Advertised, Eng. News, Oct. 5 to Nov. 2.
Nov. 1. Jetty, Washington, D. C. ..... Oct. 5
Advertised, Eng. News, Oct. 5 to Nov. 2.
Nov. 1. Lock, dam, etc., Chicago, Ill. ..... Sept. 7
Advertised, Eng. News, Sept. 7.
Nov. 3. Ammunition hoists, Washington, D. C. ..... Oct. 5
Advertised, Eng. News, Oct. 5 to Nov. 2.
Nov. 6. Garbage disposal, New York, N. Y. ..... Sept. 7
Advertised, Eng. News, Sept. 7 to Nov. 9.
Nov. 9. Wharf, etc., Havana, Cuba ..... July 27
Nov. 15. Irrigation canals, Glendive, Mont. ..... Sept. 28
Advertised, Eng. News, Sept. 28 to Nov. 9.
Dec. 1. Railroads, Philippines ..... Sept. 7
Dec. 15. Railways, Philippines ..... Sept. 21
Jan. 1. Statue, Indianapolis, Ind. ..... July 20
Advertised, Eng. News, July 20.
Jan. 2. Railroad, Chile ..... Aug. 24
No date. Street railway, Wabash, Ind. ..... Sept. 28
Advertised, Eng. News, Sept. 28.
No date. Street railway, Indianapolis, Ind. ..... Sept. 28
Advertised, Eng. News, Sept. 28.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

APPOMATTOX & CHARLOTTE.—We are informed that surveys probably will be started this fall. B. O. Eggleston, Charlotte Court-House, Va., is Pres. Chief Engineer is not selected. The line will be 40 miles long and will run from Drakes Branch, via Charlotte Court-House, to West Appomattox. Capital is secured.

ATCHISON, TOPEKA & SANTA FE.—Work is progressing at three points on the eastern New Mexico line, from Texico to Belen, N. Mex., 275 miles, with a branch from Estacado north to Amarillo, Tex. With the new Gulf, Santa Fe & Northwestern line from Brownwood, Tex., to Texico, N. Mex., 350 miles, this will give a direct route between Galveston and San Francisco. Another line under construction is that from Wickenburg, Ariz., west (crossing the Colorado River) to Bengal, Cal., on the main line, 200 miles. James Dun, Chicago, Ill., is Ch. Engr.

ATLANTA & CAROLINA.—Bids will be received at once, it is said, for building this railway from Atlanta to Conyears, via East Atlanta, Arabia and Lithonia, Ga., 27 miles. M. Mason, Atlanta, Ga., is Ch. Engr.

ARKANSAS, LOUISIANA & GULF.—It is reported that construction will begin at once. The line will extend from Pine Bluff, Ark., into Louisiana, about 125 miles long. P. B. Stewart, Pres. Colorado Title & Trust Co., Denver, Colo., is interested.

BALTIMORE & OHIO.—The contract for extensive terminal improvements at Lorain, O., has been awarded to P. FARRELL, of Cleveland, O. The work will be started at once. This is a part of the authorized expenditure of $7,000,000 on improvements at various points over the entire service, which will cost in the neighborhood of $150,000. It will consist of the construction of a roundhouse, with stalls for ten locomotives; an 80-ft. turntable and pit; a depressed double-track ash pit; a standard oil house, 30 x 55 ft.; a building with offices, bunkrooms, etc.; a 300-ton coal tipple, with a sandhouse, and a machine shop and blacksmith shop, with engine and boiler rooms. The contract for the erection of signal towers at Flushing Tunnel and Kent, O.; signal towers for Lowellville and Nova, O., and a signal tower at Ravena, O., has been awarded to W. J. MARSON & CO., of Akron, O. Noted on Sept. 14.

Contract has been awarded to EDWARD BRADY & SON for extensive improvements at Riverside, Md. They will cost about $500,000.

BIRMINGHAM, COLUMBUS & ST. ANDREWS BAY.—Financial arrangements are said to have been perfected for constructing this road between Columbus, Ga., and Eufaula, Ala. L. E. MILLER has contract. We were informed last spring by W. M. Gordon, Pres., Columbus, Ga., that all right-of-way had been secured and surveys partly completed. Contracts were to be let about April 15. About 23 miles are graded from Chipley. The railroad will be 300 miles long, running from St. Andrews via Chipley, Fla., Dothan, Eufaula and Pittsboro, Ala., to Columbus, Ga. J. M Garrett, Chipley, Fla., is Ch. Engr.

CAIRO & TENNESSEE RIVER.—We are advised that surveys are made from Wickliffe, Ky., to Bristol, Va., 425 miles. Much right-of-way is obtained or arranged for. Financing is now under good headway. The principal grading contracts between Mayfield and Wickliffe, Ky., are let to the ATLANTIC & CAIRO CONSTRUCTION CO., of New Jersey. Charles H. Delano, of Wickliffe, Ky., is Gen. Mgr. in charge of construction. L. W. Goode, 11 Broadway, New York, is Pres. Hood Tucker, at Wickliffe, is Ch. Engr. Projected length is 825 miles, to Norfolk, Va.

ELDORADO & WESSON.—Chartered in Arkansas to build a railroad from Eldorado to Wesson. Capital stock, $50,000. Incorporators: C. V. Edgar, A. B. Banks, C. M. Newell, C. W. Niehauss and J. R. Eakin.

FLORIDA RAILWAY.—The Suwanee & San Pedro Railroad and Live Oak & Gulf Railway have been consolidated, under the name of the Florida Railway.

GRAND TRUNK PACIFIC.—It is announced that the protest of the Canadian Pacific Ry. has been overruled which asked that the Grand Trunk Pacific be prohibited from paralleling the C. P. Ry. lines in Manitoba within a distance of at least 30 miles. The Canadian Railroad Commission has approved the proposed line westward from Portage la Prairie, Man., for 85 miles.

LAS VEGAS & TONOPAH.—Company has been incorporated in Utah in the interests of the San Pedro, Los Angeles & Salt Lake Ry. to build a railroad from Las Vegas, Nev., to Bull Frog, Goldfield, Tonopah and other mining camps. Capital stock, $4,000 000. Incorporators: William A. Clark, of Butte, Mont.; R. C. Kerens, of St. Louis, Mo.; J. Ross Clark, R. J. Waters, R. H. Comstock, of Los Angeles; C. O. Whittemore and Pennel C. Herrington, of Salt Lake City, Utah. Announcement is made that construction will be undertaken at once. Preliminary survey is made. Until the first election of officers is held the following are designated: J. Ross Clark, Pres.; C. O. Whittemore, vice-Pres.; W. H. Comstock, Secy.; R. J. Waters, Treas.

LOUISIANA.—THE KENNIFICK, HAMMOND & QUIGLEY CONSTRUCTION CO., with headquarters in Orange, Tex., has been awarded a contract to build a railroad from De Quincy, La., to Baton Rouge, a distance of about 250 miles, with a southern branch to a connection with the Southern Pacific Ry., a distance of about 50 miles. Construction work on the new line will begin as soon as the rigid quarantine restrictions are withdrawn. The headquarters of the contracting firm will then be moved to Baton Rouge, La., from Orange.

LOUISVILLE & NASHVILLE.—It is reported that this company will spend $2,000,000 in building new terminal at Atlanta, Ga. Milton H. Smith, Louisville, Ky., is Pres.

LAKE SUPERIOR & SOUTHERN.—Incorporated in Michigan to build a railroad from Huron Bay, in Baraga County, through Marquette and Iron Counties, to the Wisconsin state line, 85 miles. Capital stock, $750,000. Forty miles of the right-of-way was graded in 1892 by the Huron Bay & Iron Range Ry. The officers of the corporation are: M. C. Phillips, of Oshkosh, Wis., Pres.; R. P. Brunson, of Ishpeming, Mich., vice-Pres.; W. K. Ridout, National Union Bank, Oshkosh, Wis., Treas., and James O. Maxey, of Marquette, Mich., Secy.

MINERAL RANGE R. R.—An extension may be built from Mohawk, Mich., to Keweenaw Point. C. E. Lytle, Marquette, Mich., is Gen. Supt.

NEVADA-CAROLINA-OREGON RY.—T. F. Dunaway, Gen. Mgr., Reno, Nev., states that this company will construct an extension northward next spring, probably to Alturas or Lakeview, Cal. There are now 150 miles of line in operation.

NORTHERN PACIFIC.—Contracts for the Portland, Ore., to Seattle, Wash., extension are said to have been awarded to PORTER BROS., of Spokane, Wash., and to SIMS & SHIELDS, of St. Paul, Minn. Noted fully last week. To build this cut-off there has been incorporated the Portland & Seattle Ry. in Washington. As announced last week, under the name of the Portland & Seattle Ry., the Great Northern and the Northern Pacific companies will build a joint line from Kennewick to Vancouver, Wash., 244 miles. Incorporators: J. Couch Flanders, C. F. Adams, S. B. Linthicum, John S. Baker and James D. Hodge. The officers are: J. Couch Flanders, Pres.; S. B. Linthicum, Secy.; C. F. Adams, Treas. Capital stock, $5,000,000. E. J. Pearson, St. Paul, Minn., is Ch. Engr.

OREGON.—It is reported that LOEHR & WINKLE, of Walla Walla, Wash., have secured a contract for building 80 miles of railroad in Oregon.

PITTSBURG & CROSS CREEK.—We are informed that contracts will be let this week for building this railway from Pryor to Burgettstown, Pa., seven miles. Surveys are completed. This road will connect the Wabash Ry. and the Pittsburg, Cincinnati, Chicago & St. Louis Ry. at Burgettstown. Noted on Sept. 7. N. F. Sanford, 805 People's Bldg., Pittsburg, is Pres.; B. U. Young, New Castle, Pa., is Treas. and Secy., and Elliott & Baton, Fourth Ave., Pittsburg, are Engrs.

SOUTHERN RY.—Surveys are made for line between Rutherfordton, N. C., and Spartanburg, S. C., about 35 miles. W. H. Wells, Ch. Engr., states that date for beginning construction is not decided. The Spartanburg "Journal" states that this line will be known as the Spartanburg Northern Ry. John B. Cleveland, Ralph K. Carson and George W. Nicholls, of Spartanburg, are interested.

W. J. OLIVER, of Knoxville, Tenn., who has contract for double-tracking the Southern from Knoxville to Morristown, has let the following sub-contracts: McCREARY & CO., 14 miles; DONAGHY & CO., ten miles, and BORCHES & CO., two miles. The remainder of the contract will be let as early as possible.

TEXAS, OKLAHOMA & NORTHWESTERN.—This company has been chartered in Oklahoma to build a railroad from a point on the boundary line between the Chickasha Nation, Ind. T., and Caddo County, Okla., northwest to a point on the Cimarron River in Woodward County, with a branch through the counties of Blaine, Kingfisher and Logan to Guthrie, Okla., and eventually with a branch southwest through Cheyenne, Okla., into Texas, a total of 450 miles. It is stated that construction will begin from Thomas or Custer City, Okla., on the Kansas City, Mexico & Orient, northwest to Taloga and Lenora, in Dewey County, Oklahoma. Capital stock, $2,500,000. Incorporators: A. H. Huston, John Devereaux, Charles Seeley and Charles E. Carpenter, of Guthrie, Okla., and Henry Knapp, of New York City.

TUNNEL COAL CO.—We are advised that REDMOND & GABBETT, Henry Ellen, Ala., have contract for building this company's line from Henry Ellen to company's mines, 12 miles. Grading is practically completed. Ross C. Smith, Birmingham, Ala., is Pres.; Henry M. Steele, Savannah, Ga., is Ch. Engr.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

WATERBURY, CONN.—The Woodbury & Waterbury Street Ry. Co. has completed its plans for a line over private right-of-way from the Waterbury town line to Woodbury. Maps and plans will shortly be submitted to the selectmen for both towns for approval. Bids for the construction of the line probably will be asked within the next four or five weeks, as the promoters plan to start on the project as soon as possible.

MT. VERNON, N. Y.—The New York, Westchester & Boston Railway Co. has filed with the city a bond for $20,000, which, under the franchise recently granted by the city, the company was compelled to put up to secure the beginning of work within sixty days, and the expenditure of $100,000 in construction work during the first year.

LONG ISLAND CITY, N. Y.—The Manhattan & Long Island Ry. Co. has been incorporated in New York to build an electric railway 80 miles long from Long Island City to Northport, L. I. Capital stock $10,000,000. Directors: Edward Mackey, D. T. Meyer, H. H. Bowtill, Samuel Y. Sauber, Franklin M. Walter and George E. MacArtile, of New York City; Robert M. Stockwell, of Yonkers, N. Y.; A. Parontend and Henry Guinard, of Watchung, N. J.

ILION, N. Y.—D. D. McKoon, Myron A. McKee and S. L. Kelsey have been granted electric railway franchise.

JERSEY CITY, N. J.—The Newark & Hackensack River Ry. Co. and the Jersey City & Hackensack River Ry. Co. have been incorporated in New Jersey to construct and operate the proposed high-speed electric line between Newark, Jersey City and New York. This matter was fully noted last week in connection with the incorporation of the Interstate Tunnel Co. The capital stock of each company is $1,000,000. The office of the companies will be at 763 Broad St., Newark, N. J.

GALLITZIN, PA.—Charters have been granted for traction lines in Cambria County, which, when completed, will be controlled by a single corporation. The lines will connect Gallitzin, Cresson, Lilly, Bens Creek, Cassandra, Portage and Wilmore, Pa. The charters call for the incorporation of the Gallitzin Borough Street Ry.; the Gallitzin, Portage & Wilmore St. Ry.; the Gallitzin, Cresson & Wilmore Street Ry. Co., and the Gallitzin, Lilly & Wilmore Street Railway Co. The incorporators are George Z. Hosack, of Altoona; J. T. Barr, F. B. Fisher, J. I. Mullin, C. W. Mositer and Jacob Link, of Pittsburg.

CUMBERLAND, MD.—It is announced that the incorporators of the South Cumberland Electric Ry. Co., noted on Sept. 21, are Wm. E. Walsh, Peter J. Seaver, Harry E. Weber, Robert H. Gordon, David A. Robb and Ferdinand Williams, all of Cumberland.

DANVILLE, VA.—The company which proposes to build an electric railway from Danville, Va., to Yanceyville, N. C., probably will be known as the Danville & Caswell Ry. Co., according to Howell C. Featherstone, of Lynchburg, Va. Mentioned last week. It will be about 20 miles long.

BEARD, KY.—An extension of the Louisville & Eastern Ry. is planned from Beard, Ky., to Lagrange, Shelbyville, Eminence, New Castle and Frankfort, about 80 miles. Percival Moore, 511 West Green St., Louisville, Ky., is Gen. Mgr.

BALTIMORE, MD.—An electric railway will be built from Baltimore to Elkridge station (Baltimore) about seven miles, by the Maryland Transit Co. Charles R. V. Myers, Raymond H. Whiting, Chas. L. Leach and F. Reisenweber, of Philadelphia, Pa., are the promoters.

HUNTSVILLE, ALA.—The North Alabama, Huntsville & Monte Sano Improvement Co. will build an electric railroad to Monte Sano, it is reported. James P. O'Shaughnessy, of New York, is Pres. of the company.

UNION CITY, TENN.—The Union City & Reelfoot Railway Co. has been incorporated, with capital stock of $10,000. The incorporators are: R. P. Whitesell, J. C. Burdock, T. B Greer, A. E. Darrah, W. M. Turner, C. P. Wilson, John White, F. M. McCree, John Thaw, H. C. Sanfield and J. C. Reynolds.

NASHVILLE, TENN.—We are informed that the surveys are made for the Nashville Interurban railway. It will be 80 miles long, extending from Franklin to Nashville, via Columbia, Mt. Pleasant, Lewisburg and Gallatin. The motive power will be gasoline. Nat Baxter, of Nashville, is Pres.; W. W. Southgate is Ch. Engr. Judge J. H. Pitts, of Nashville, is interested. Estimated cost of construction is $2,000,000.

UHRICHSVILLE, O.—We are advised that the construction of an electric line between Wheeling, W. Va., and Uhrichsville, O., as contemplated, is the southern extension of the system of trolley lines controlled by Tucker-Anthony & Co., from Cleveland to Uhrichsville. This proposed extension will be from Uhrichsville, via Cadiz, to the Ohio River at Portland and thence to Steubenville, O., on the north; and to Wheeling, W. Va., on the south. It is through a rich and thickly settled country containing the principal coal fields in southeastern Ohio.

CLEVELAND, O.—Bids will be received by the Board of Public Service until Oct. 3 for furnishing materials, grading and constructing about 1⅛ miles of electric railway, from Kingsman St. south to the Cleveland Farm Colony. A. R. Callow is Secy.

SANDUSKY, O.—The Sandusky, Fremont & Tiffin Traction Co. has been incorporated. Capital, $100,000. The incorporators are Charles Thompson, W. H. Gilcher, John G. Dorn, D. B. Sharp and others. The company plans to build a line from Sandusky to Fremont and Tiffin, which will form an important connection in the traction system of northern Ohio. The Tiffin & Sandusky Construction Co. has been chartered, with $25,000 capital, to build the road.

ALLIANCE, O.—The Alliance, Akron & Cleveland Railway Co. is reported to have been organized, with Hugh Bleakley, Pres.; G. L. King, vice-Pres.; R. S. Kayler, Secy.-Treas. Surveys from Akron to Alliance have been made and financing arrangements are reported to be progressing.

SOUTH BEND, IND.—The Indianapolis, Logansport & South Bend Traction Co. is said to have been granted a 50-year franchise in South Bend. Right-of-way is mostly secured and construction probably will begin soon.

VINCENNES, IND.—LEWIS METESSER, of New Orleans, has been granted contract to build the Vincennes, West Baden & Louisville Traction line from Vincennes to West Baden, by way of Petersburg, Otwell and Jasper. The same contractor will build a $300,000 power house at a point along the route. Those interested in the company include: T. H. Adams, Pres., of Vincennes; J. O. Davis, Treas.; F. E. Champelle, Secy., and Sol Frank, of Petersburg; Bomar Traylor and H. Eckmarm, of Jasper; R. M. Gray, of Otwell, and Smiley Chambers, of Indianapolis.

PEKIN, ILL.—Guy W. Talbot, vice-Pres. of the Peoria, Pekin & Southeastern Ry., at Pekin, has stated that this company, recently chartered, proposes to build a combination steam and electric railway from Pekin to Saint Elmo, Ill., 118 miles, by way of Mason City, Springfield, Pawnee, Moundsville, Nokonus and Ramsey. Passenger trains will be operated by electricity and freight trains by steam. Surveys have been completed from Pekin to Ramsey, 100 miles, and the line is under survey from the latter point to Saint Elmo, 18 miles. It is expected to begin work of construction at once. S. Reed Anthony is Pres., Boston, Mass.; Baxter L. Brown, Peoria, Ill., is Ch. Engr.; Chauncey Eldridge, Boston, is Treas.

O'NEILL, NEB.—Lyman Waterman, of O'Neill, is interested in project to build a system of railways in northern Nebraska. Right-of-way is being secured. Information is desired from construction companies and bonding companies.

GAINESVILLE, TEX.—Grading will be started at once on the Gainesville & Sherman Interurban railway between [illegible] cities. An extension will be built [illegible] Gainesville to Decatur at a later date. [illegible] L. Hassinger, Gainesville, is interested.

OKLAHOMA CITY, OKL[illegible] The contract for constructing the Oklah[illegible] City, Lexington & Sulphur Springs e[illegible] railway has been awarded to J. W. MAN[illegible] of El Reno, Nev., it is reported. The l[illegible] will be eight miles long.

LEES SUMMIT, MO.—Th[illegible] Kansas City, Lees Summit & Eastern [illegible] Ry. has been granted a franchise in [illegible] city. The company will build a railw[illegible] from Kansas City to Lone Jack, Mo., [illegible] miles. Cole Younger is the promoter.

KANSAS CITY, MO.—The [illegible]GANOXIE CONSTRUCTION CO., of To[illegible]ville, Kan., has contract to build the Ka[illegible] City, Lawrence & Topeka Short Line rail[illegible] from Kansas City, through Wyandotte [illegible], Kan., to Lawrence, Kan., 64 miles. [illegible] officers of the organizing company are [illegible] T. Manning, E. M. Lambkin, Marti[illegible] Gallagher, of Easton, Kan., and W. Lan[illegible] of Tonganoxie.

NORTH BEND, ORE.—A fra[illegible] authorizing the construction, operati[illegible] and maintenance of a street railway a[illegible] power system in this city has been gra[illegible] to H. C. Diers and L. F. Falkerstein.

SAN FRANCISCO, CAL.—M[illegible] & SONS, of Stockton, Cal., have contract to build 12½ miles of roadbed on the Bay Shore line to Santa Cruz.

LEWISTON, IDAHO.—We are advised that right-of-way is secured and surveys made for the Lewiston & Southeastern Electric railway. Water power rights secured. The line will be 110 miles long, extending from Lewiston through Waha, Forest, Moscow, Westlake, Cottonwood, Denver, Grangeville, Ilo, Dublin and Nez Perce, Idaho. Col. Judson Spofford, of Lewiston, is Pres.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

SPRINGFIELD, VT.—Springfield Gas Co. has been organized to install a gas plant for heating and lighting purposes. A. W. La Fountain, W. D. Woolson and H. H. Blanchard, of Springfield, and J. R. Dawson, Boston, Mass., are interested. Mr. Dawson, it is said, will be in charge of the work.

BELLOWS FALLS, VT.—Bellows Falls & North Walpole Gas Co., incorporated in July with $150,000 capital, has been granted franchise here.

NORWICH, CONN.—The Norwich Gas & Electric Co. will erect brick buildings in connection with the gas department, including a condensing house, a water gas plant and a purifying plant.

SYRACUSE, N. Y.—Contracts for a new transformer station for the Syracuse Rapid Transit Co. will be let soon, according to John J. Stanley, of Cleveland, vice-Pres. It is expected that cars on this system will be supplied with Niagara power within six months. Mr. Stanley has appointed John E. Duffey to continue as superintendent, in practical charge of the system.

NEW YORK, N. Y.—The New York Central & Hudson River Ry. Co. has awarded the contracts for transformers at sub-power stations No. 3 and No. 7, at Kings Bridge and Bronx Park, N. Y., respectively, to the GENERAL ELECTRIC CO., 44 Broad St., and for rotary converters to the WESTINGHOUSE ELECTRIC & MFG. CO., 120 Broadway. Reed & Stern, 7 East 42d St., are the Archs. BUTLER BROS., 1170 Broadway, have general contracts for both buildings.

SYRACUSE, N. Y.—Bids were received on Sept. 25 for lighting city streets and buildings and rejected. New bids will be received on Oct. 9.

PHILADELPHIA, PA.—The Philadelphia Rapid Transit Co. will build a sub-station at Allison and Market Sts. W. S. Twining is Ch. Engr., 820 Dauphin St.

PHILADELPHIA, PA.—The only bidder for city lighting for one year—the [illegible] Electric Co.—will be awarded the contract at an average price of $90.

HUNTINGDON, PA.—The Juniata Hydro Electric Co., with executive office in the Perry Bldg., Philadelphia, has commenced work on the development of an extensive water power on the Juniata River, near Huntingdon. A concrete-steel dam about 600 ft. long is now under construction, to be followed by a canal and power house. The contractor is the AMBURSEN HYDRAULIC CONSTRUCTION CO., of Boston.

BALTIMORE, MD.—Bids are asked until 11 a. m., Oct. 11, by Harry F. Hooper, City Register, for furnishing, installing, equipping, maintaining and operating gasoline or naphtha street or outdoor lamps, with the use of incandescent mantle fixtures. Bids must be submitted for the term of one, two, three and five years, beginning Jan. 1, 1906.

WASHINGTON, D. C.—Bids were opened on Sept. 30 for furnishing all material, labor and other appliances, and erecting and putting in operation, in a building and on foundations to be provided by the United States, and in locations within the Capitol building, Congressional Library building and Senate and House office buildings, now under construction, a complete heating, lighting and power plant. The following bids were received: (1) being for plant complete; (2) amount added or deducted for steam transmission, per foot of tunnel; (3) amount added or deducted for electrical transmission per foot of tunnel: Lynch & Woodward, Boston, (1) $862,726, (2) $42, (3) $42; Manier, Casey Co., Chicago, (1) $1,047,298, (1) $1,031,198, (1) $971,198, (1) $947,886, (2) $18, (3) $9; McIntosh, Seymour & Co., Auburn, N. Y., (1) $903,730, (2) $11, (3) $4.50; Carl Leonard de Muralt, New York, N. Y., (1) $1,164,700, (1) $1,119,800, (2) $20, (3) $14; Scofield Co., Philadelphia, (1) $1,015,450, (1) $974,100, (2) $5, (3) $7; J. G. White & Co., New York, (1) $1,189,250, (1) $1,079,209, (1) $1,199,868, (1) 1,033,646, (1) $995,675, (2) $16, (3) $4; Westinghouse Elec. & Mfg. Co., Pittsburg, (1) $1,119,584, (2) $47, (3) $[illegible], (1) $1,034,300, (2) $47, (3) $9.50; (1) $901,736, (2) $24, (3) $6.

RICHMOND, VA.—Ordinance will be prepared by city attorney covering the issuance of $300,000 of bonds for a municipal light and power plant. The plant is to have a capacity of 2,000 HP., capable of being increased to 4,000 HP. E. W. Trafford is Consult. Engr. J. B. Wood is Chn. of the Committee on Electricity.

R. E. Bruce has prepared a report upon the condition of the city gas works. The recommendations contained in the report provide for the complete overhauling of the plant and the installation of new machinery. The plant is incapable at present of making a sufficient quality and quantity of gas for use of consumers in Richmond. It is estimated that the building of a plant to meet the requirements of the city will entail a cost of $1,500,000.

WHITNEY, N. C.—The T. A. GILLESPIE CO., of Pittsburg, has contract for the dam, canal and power house for the Whitney Co., of Pittsburg, which will be erected at Whitney. The GENERAL ELECTRIC CO., of Schenectady, N. Y., has contract for equipment. Total cost will be over $4,000,000.

FAYETTEVILLE, N. C.—Bids are asked until 6 p. m., on October 10, for extension and changes in the municipal lighting plant. H. R. Horne, Chn. Public Works Comm. Specifications are on file at the New York office of Engineering News.

GREENSBORO, N. C.—We are informed that plans are in progress for development of power for the Southern Yadkin River Development Co. Company expects to build a 12-mile canal to carry water from Yadkin River, under 60-ft. head. Approximate cost of plant is $2,000,000. J. M. Bandy, Greensboro, is Ch. Engr.

GADSEN, ALA.—The Gadsen Gas Light & Fuel Co. will at once begin construction of its plant and gas system. J. B. Hammond is interested.

PIKEVILLE, KY.—The Pikeville Electric Light Co. has been incorporated with $50,000 capital. J. B. Auxier, Pikeville, is Pres.

SPRINGFIELD, O.—The Springfield Gas Co. will expend $20,000 this fall in making extensions to its system. E. D. Abbott is Supt.

CICERO, IND.—Contract to erect an electric lighting plant here has been awarded to SANBORN-MARSH ELECTRIC CO., of Indianapolis.

VINCENNES, IND.—LEWIS METESSER, of New Orleans, La., has been awarded the contract by the Vincennes, West Baden & Louisville Traction Co. to build its power plant. Probable cost, $300,000. The plant will be located at Petersburg.

FREEBURG, ILL.—We are informed that this village will build a municipal electric light and power plant at cost of $9,000. Plans and specifications are prepared. Owen Ford, 710 Security Bldg., St. Louis, Mo., is Consulting and Supervising Engr. Plans may be seen at his office or at Freeburg.

KULM, N. DAK.—An electric light and water-works system is to be installed.

DENVER, COLO.—Improvements costing about $1,000,000 will be made by the Denver Gas & Electric Co. to its plant during 1906. C. W. Humphrey, Denver, is Ch. Engr.

SAN FRANCISCO, CAL.—Robert McF. Doble, Consulting Engr., of the Abner Doble Co., San Francisco, has returned from a trip of several months through the Sierra Madre mountains, on the west coast of Mexico, and also in Colorado, where he was engaged in making examinations of several important hydro-electric long-distance power projects.

SAN LUIS OBISPO, CAL.—R. S. ASTON, of San Francisco, Cal., has been awarded contract for an electric plant at this place. Cost, $35,000. Charles C. Moore Co., of San Francisco, is the Engr.

SAN FRANCISCO, CAL.—Site for municipal power-house at Baker and Geary Sts. will be purchased. This power-house will be used in connection with the proposed reconstructed Geary St. railway.

DRUMMONDVILLE, QUE. — See under Water Supply—Irrigation.

HARRISBURG, PA.—The Dauphin County Gas Co. will erect a reserve gas reservoir on Christian St.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

CAMBRIDGE, MASS.—WILLIAM CRANE, 7 Water St., Boston, has been awarded contract for constructing bridge and abutments at the crossing of First and Main Sts., Cambridge, for which bids were opened Sept. 28. Contract price, $27,375.

BINGHAMTON, N. Y.—WILFRED E. FOOTS, Owego, has taken the contract from the New Jersey Bridge Co. to build the bridge on Robinson St., for which the Common Council awarded the contract some time ago.

NEW BRUNSWICK, N. J.—The contract for strengthening the Westons Mills bridge was awarded to DEAN, SCHWIERS & SUTTON CO., 136 Liberty St., New York City, for $3,800, and not to the Middlesex Construction Co., as was wrongly stated in last issue.

PHILADELPHIA, PA.—Reports state that plans and specifications have been completed for the construction of four new bridges, and proposals will soon be asked by Geo. L. Webster, Act. Ch. Bureau Filtration.

GREENSBURG, PA.—At a joint session of the Westmoreland and Fayette County Commissioners the contract for a bridge across Jacobs Creek was awarded to AMERICAN BRIDGE CO., of Pittsburg, for $4,930.

CHESTER, PA.—In reference to proposed bridge at Fifth St., mentioned in last issue, Jas. P. Wetherill, 1225 Walnut St., Chester, informs us that the Grand Jury will act on the bridge at the December term of court.

SHREVEPORT, LA.—The City Council will commence at once the preliminary work for construction of new bridge over Red River. John M. Dortch is Cy. Engr.

DUBUQUE, IA.—It is reported that the Chicago Great Western R. R. has submitted a proposition to Board of Aldermen for the construction of a new viaduct on Peru Road.

MT. WASHINGTON, KY.—The large wooden bridge over Salt River, near here, has been condemned. Steps have been taken by the county officials for the erection of an iron bridge, but no contract has yet been let.

BARBERTON, O.—County Commissioners at Akron have decided to build a new bridge over canal at Robinson Ave., Barberton. Cost, $3,000.

MARION, O.—Bids are asked by County Commissioners until Oct. 24 for construction of a new steel bridge superstructure over Scioto River. L. M. Hipsher, County Audr.

DAYTON, O.—Bids are asked by T. J. Kauffman, County Audr., until 11 a. m., Oct. 21, for removing Kercher St. canal bridge, masonry and approaches, and erecting a swing bump bridge on present site of bridge on Kercher St., crossing canal in village of Miamisburg.

ATTICA, IND.—County Commissioners have awarded a contract to the ATTICA BRIDGE CO., at $1,599, for construction of bridge over Bear Creek.

CONNERSVILLE, IND.—County Commissioners are asking for bids for the construction complete of a stone or cement arch over Ross's Run in Connersville Township. J. W. Ross is County Audr.

INDIANAPOLIS, IND.—It is stated that the County Council has passed an ordinance appropriating $190,000 for the erection of a bridge over White River, near Riverside Park.

NEWPORT, IND.—Bids are asked by County Commissioners, until 10 a. m., Oct. 19, for construction of bridge and its abutments over Little Raccoon Creek in Heit Township. H. T. Payne, County Audr.

ALTON, ILL.—The survey of the Burlington R. R. in the vicinity of Alton and on Missouri Point has been completed. It is given out on good authority that the survey is for the purpose of building another bridge over the Mississippi River. W. L. Breckinridge is Engr., Chicago.

LA CROSSE, WIS.—Press reports state that the City Council has decided to make repairs to the amount of $10,000 on a wagon bridge. Frank C. Powell is Cy. Engr.

MANITOWOC, WIS.—We are informed that John Geist, Engr., 54 Exchange Bldg., Milwaukee, has made a report to City Council condemning the present Tenth St. bridge here and recommending a new bridge to cost about $60,000.

RACINE, WIS.—John Geist, Engr., Milwaukee, writes us that bids will be received in about a month for construction of a 240-ft. swing bridge on concrete piles over Root River.

WICHITA, KAN.—County Commissioners have adopted specifications for three new bridges, and county clerk was instructed to advertise for bids for the work, the bids to be opened Oct. 23.

FALLS CITY, NEB.—The bridge on Tenth St. was washed out by heavy rains.

PLATTSMOUTH, NEB.—It is estimated that the cost of making repairs to bridges and roads in this county, which were damaged by recent heavy rains, will be about $3,000.

PIERRE, S. DAK.—The Chicago & Northwestern Ry. will build a bridge across the Missouri River to connect with its extension to Rapid City. E. C. Carter is Ch. Engr., Chicago, Ill.

MISSOULA, MONT.—O. E. Peppard, of Missoula, was the lowest bidder for construction of new bridge across the Big Blackfoot River, near Bonner. His bids were submitted with plans for several styles of structure, and ranged in price from $4,430 to $4,745. Bids were opened Sept. 20 by County Commissioners.

HARTVILLE, MO.—County Court has made an order to build two bridges, one across Woods Fork and the other across the Gasconade River.

STOCKTON, MO.—County Commissioners received bids Sept. 21 for three bridges and let the contract to the CANTON WROUGHT IRON BRIDGE CO., for $5,555.

ARGENTA, ARK.—A bridge over the railroad [illegible] will probably be constructed at a cost of $27,500. Address City Clerk.

SALEM, ORE.—City Council has ordered the repair of six bridges and the building of a new one. Nearly 30,000 ft. of lumber will be required for the Mill Creek bridge on Front St.

SAN FRANCISCO, CAL.—Thos. P. Woodward, Cy. Engr., has completed plans for widening the steel bridge at San Jose and Mount Vernon Aves. Cost, $15,000.

NAPA, CAL.—Bids are asked by Board of Supervisors until Oct. 10 for construction of stone arch bridge across a small creek on main county road leading from Rutherford to St. Helena, in Road District No. 5 and near Bale Slough; also for a stone arch bridge across a slough east of Napa River, on county road in Road District No. 4.

SANTA ROSA, CAL.—Council has decided to erect a plate girder steel bridge across creek on E St. to replace the old bridge; cost, about $7,000.

City Clerk was instructed to advertise for bids for construction of bridge across Santa Rosa Creek.

SAN JOSE, CAL.—Bids will be received by Board Supervisors until 10 a. m., Oct. 16, for construction of a bridge over Guadalupe Creek at Willow St.; also for construction of a bridge over Coyote Creek. Henry A. Pfister, Clk.

MARYSVILLE, CAL.—The Board of Supervisors has awarded to C. W. SWAIN, a local contractor, the contract for building new steel bridge across Honcut Creek at the Gianella place at a cost of $2,450.

SAN FRANCISCO, CAL.—Thos. P. Woodward, Cy. Engr., has completed plans for widening bridge at San Jose and Mt. Vernon Aves., at a cost of $15,000.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

LANCASTER, N. H.—County Commissioners awarded contract to A. N. GILBERT, of Berlin, N. H., at $29,900, for construction of court house.

BURLINGTON, VT.—The contract for heating U. S. post-office public building at Burlington, Vt., has been awarded to G. S. BLODGETT CO., of Burlington, at $5,155.

NEW YORK, N. Y.—MARC EIDLITZ & SON, 489 Fifth Ave., have been awarded general contract for erecting bank building at 29 Union Sq., for the Union Square Savings Bank, care F. H. Hurlbut, Pres. Brick and stone, fireproof, 1-story, 25 × 100 ft. Henry Bacon, 160 Fifth Ave., is Arch. Cost, $150,000.

NEW YORK, N. Y.—The report published in last issue regarding office building to be erected at Church, Cortlandt and Dey St., erroneously gives McKim, Mead & White as the architects. Clinton & Russell, 32 Nassau St., are the architects, and Hudson & Manhattan Tunnel Co. the owner, care W. G. McAdoo, 15 Wall St., Jacobs & Davies, 85 Cedar St., are the engineers for the structural work.

Cady & See, Archs., 6 West 22d St., are taking figures on a church to be erected at 114th St. and First Ave. for the New York City Church. Brick and stone, fireproof, 5 stories, 50 × 100 ft.

NEW YORK, N. Y.—Schwartz & Gross, Archs., 35 West 21st St., have completed plans for loft building to be erected at 66-72 Lafayette St., for Israel Lippmann. Cost, $300,000. Previously noted.

Frank S. Lowe, Arch., 185 Remsen St., Brooklyn, has completed plans for an apartment house to be erected at 126th St. and Fifth Ave., for the Collins Building & Construction Co., 225 West End Ave. Brick, stone and terra-cotta, 6 stories, 100 × 110 ft. Owners will take figures on Oct. 15. Cost, $250,000.

The Transit Realty Co., 198 Broadway, care L. S. Bing, wants figures on everything but mason work, for new apartment house to be erected at 137th St. and Riverside Drive from plans by Moore & Landsiedel, Archs., 148th St. and 3d Ave. Brick, stone and terra-cotta, 6 stories, 100 × 100 × 105 ft. P. R. Moses, 320 Fifth Ave., is Consult. Engr.

NEW YORK, N. Y.—Neville & Bagge, Archs., 217 West 125th St., have completed plans for a $100,000 apartment house to be erected at 148th St. and Convent Ave. for Chas. Brogan, 540 West 112th St. Brick and stone, semi-fireproof, 6 stories, 100 × 82 ft.

Chas. E. Birge, Arch., 5 West 31st St., has completed plans for a $275,000 apartment hotel to be erected at 106th St., and West End Ave., for the Stanley Court Realty & Construction Co., 76 William St. Brick, stone and terra cotta, 12 stories, 90 × 76 ft.

Neville & Bagge, Archs., have completed plans for an apartment house to be erected at 127th St. and Claremont Ave., for J. V. Signell Co., 302 Central Park West. Brick, stone, terra cotta, 6 stories, 100 × 109 ft. Owner will build.

J. D. JOHNSTON CO., 1133 Broadway, has been awarded general contract for the erection of a stable at 102 West 46th St., for R. Taggart, 132 West 43d St., from plans by L. A. Goldstone, 110 West 34th St.

JOHN DOWNEY, 410 West 34th St., has been awarded general contract for erecting new $3,000,000 apartment hotel for the William Waldorf Astor estate, to be located at 78th and 79th Sts., and West End Ave. Clinton & Russell, Archs., 32 Nassau St. Brick, stone and terra cotta, fireproof, 12 stories, 200 × 250 ft.

G. F. Pelham, Arch., 503 Fifth Ave., has plans completed for a $350,000 apartment house to be erected at 924 St. and Riverside Drive, for Jacob Axelrod, 93d St. and Riverside Drive. Brick, stone and terra cotta, fireproof, 9 stories, 60 × 127 × 110 ft.

A. Busselle, Arch., 1135 Broadway, has plans in progress for $60,000 alteration to residence at 128 East 70th St. Work to be done consists of new front and general interior overhauling with a rear extension two stories, 20 × 40 ft.

CARMEL, N. Y.—Bids are asked by John W. Towner, Clk. Supervisors, Brewster, N. Y., until noon Oct. 9 for alterations to Putnam County court house and jail. Bids will be received for three classes of work, namely: Prison work, general construction and plumbing, heating and lighting. William J. Beardsley, Arch., 42 Market St., Poughkeepsie, N. Y. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids were opened Oct. 2 by Board of Education for general construction, etc., of (a) Public Schools No. 25 at 326 Fifth St., and (b) No. 158, on Avenue A, between 77th and 78th Sts., as follows: Jos. Olhausen, 443 Stanhope St., (a) $38,823; Thos. Cockerill, 147 Columbus Ave., (a) $34,000, (b) $74,900; P. Sullivan, 18 Lafayette Place, (a) $24,440, (b) $68,600; Wm. Werner, 892½ Forest Ave., (a) $24,835, (b) $66,765; Thos. McKean, 110th St. and Broadway, (a) $23,323; L. J. Rice, 5 East 42d St., (a) $21,926; C. H. Peckworth, 415 Hudson St., $24,325, (b) $58,967; J. & L. Moreland Co., 1910 Park Ave., (a) $23,325.

BROOKLYN, N. Y.—The following bids were opened Oct. 2 by Board of Education for construction, etc., of Eastern District High School on Marcy Ave., between Rodney and Keap Sts.: F. W. Carlin Const. Co., 26 Court St., $573,648; Arci Const. Co., 99 Broadway, $513,000; John Auer & Sons, 957 Broadway, $528,800; R. E. Henningham, 4 Court Sq., $514,450; Jno. Kennedy & Son, 175 Front St., $485,000; Clarke & Stowe, 229 Kent St., $496,300; P. Cleary, 235 Bainbridge St., $523,873, all of Brooklyn; Thos. Cockerill & Sons, 147 Columbus Ave., $537,777; P. J. Walsh, 513 5th Ave., $499,999; P. J. Brennan, 1931 Broadway, $539,000; Buckley Realty & Const. Co., Times Bldg., $560,000; Chas. H. Peckworth, 415 Hudson St., $519,985, all of New York City.

GOVERNOR'S ISLAND, N. Y.—Bids are asked until 11 a. m., Oct. 18, for construction of post hospital at Fort Wood, N. Y. H. Traber Norman, Q.-M. (Advertised, Engineering News.)

NEW YORK, N. Y.—B. S. Harrison, 79 Wall St., is the consulting engineer for heating work on new bank building to be erected at 31-33 Pine St., for Redmond & Co. Bruce, Price & De Sibour, Archs., 1133 Broadway. G. T. Wills, 156 Fifth Ave., is general contractor. Carpenter work and wiring not let.

NEWARK, N. J.—FISSELL & WAGNER, 1135 Broadway, have been awarded general contract for erecting a residence at Newark for J. G. Spurr. Benj. W. Morris, Jr., 5 West 31st St., New York City, is Arch. Brick and stone, 2½ stories, 38 × 82 ft. Electric wiring is not included in the general contract, and architect will take figures on same very soon.

HOBOKEN, N. J.—A. R. WHITNEY, JR. & CO., 135 Broadway, New York City, were awarded the general contract for erecting a residence in Hoboken, for Mrs. A. Behrens. Roos & Boorsem, Archs., 47 Cedar St., New York City. Brick and stone, 2 stories, 30 × 50 ft.

HASBROUCK HEIGHTS (Sta. Hackensack), N. J.—Plans have been completed by Walker & Morris, Archs., 24 East 23d St., New York City, for new school house to be erected at Hasbrouck Heights.

ATLANTIC CITY, N. J.—Price & McLanahan, Archs., 1024 Walnut St., Philadelphia, Pa., have invited bids for an addition to Hotel Marlborough for J. J. White & Sons. Brick and stone, 3 stories, 125 × 100 ft.

HARRISBURG, PA.—Sealed proposals will be received by Dr. H. L. Orth, Supt. State Lunatic Hospital, Harrisburg, for the erection of a home for women nurses and for a building for dangerous patients. J. A. Dempwolf, Arch., York, Pa.

Bids will be received at the same time and place for the erection of two temporary ward buildings. Philip H. Johnson, Arch., Land Title Bldg., Philadelphia.

HARRISBURG, PA.—C. H. Lloyd, Arch., 216 Market St., is preparing plans for a three-story addition to city almshouse.

PHILADELPHIA, PA.—Jas. Johnston, 1713 Sansom St., has been awarded contract for church and Sunday-school at 54th St. and Catharine St., for the Wharton St. M. E. Church. Cost, $100,000.

Stearns & Castor, Archs., Stephen Girard Bldg., are preparing plans for a five-story warehouse at Fifth and Locust Sts., for Wolf & Bro.

WILKES BARRE, PA.—Contract to construct hotel for John A. Redington has been let to E. L. LONG & CO., 24 North Wyoming St. Cost, $125,000.

PHOENIXVILLE, PA. — Geo. Mattress & Son, 430 Walnut St., Philadelphia, are preparing plans for rebuilding St. Peters P. E. Church, at a cost of $100,000.

WILKESBARRE, PA.—Wilson J. Smith, Arch., is preparing plans for three-story warehouse for Walter Hance & Co.

ALLENTOWN, PA.—M. S. Young & Co., 740 Hamilton St., will have plans prepared for store and office building at 736-8 Hamilton St. Cost, $50,000.

HARRISBURG, PA.—The Security Trust Co. has purchased a site, 52 × 61 ft., and will at once have plans made for a building.

BALTIMORE, MD.—Max Pitt, 2547 Pennsylvania Ave., has commissioned Jacob F. Gerwig, Arch., Hoffman Bldg., to prepare plans and specifications for ten dwellings to be erected at Slingluff and Clifton Aves. Cost, about $20,000.

Chas. B. Burdette, 1812 West Lexington St., has commissioned Geo. Clothier, Jr., Arch., 15 South Gay St., to prepare plans and specifications for 16 dwellings to be erected on 27th St.; cost, about $50,000. Brick, 3 stories, 15 × 55 ft.

August Weber, 1701 St. Paul St., has awarded contract to FRANK NOVAK, 800 North Duncan St., for construction of 31 dwellings on Port St. and Ashland Ave., to cost about $25,000.

Jos. H. Pentz, 630 West Saratoga St., has commissioned Jacob F. Gerwig, Arch., 11 East Lexington St., to prepare plans, specifications for 65 dwellings to be erected at 25th St. and Guilford Ave.

BALTIMORE, MD.—Building Inspector Preston will make recommendation to the Municipal Board of Estimates that $250,000 be appropriated for repairs to city buildings during 1906.

WASHINGTON, D. C.—Bids are asked by Elliott Woods, Supt., Dept. Bldgs. and Grounds, until 2 p. m. Oct. 11 for furnishing and delivering 9,000,000 red brick for use in connection with the construction of Senate and House office buildings.

GATE CITY, VA.—The First National Bank will erect a new building. Address the President.

FAIRMOUNT, W. VA.—The contract for construction of Masonic Temple for the Fairmount Masonic Lodge has been let to the BRADY CONSTRUCTION CO. Cost, $75,000.

BRUNSWICK, GA.—The county will erect a $65,000 court house and will receive bids for construction of same. Address A. O. Lane.

JACKSON, MISS.—The Elk lodge will erect a three or four story lodge building. Address the secretary.

NACHITOCHES, LA.—The city contemplates building a city hall, market-house and engine-house, all to be under one roof. Plans and specifications are already made and submitted to City Council. Address the Mayor for information.

MEMPHIS, TENN.—Fred B. Young has the contract for two brick school buildings, to cost $54,490, two frame buildings, $25,300 and addition to one brick school building, $16,387. A. B. Hill, Secy. Bd. of Education.

GRAND RIVERS, KY.—The Methodist congregation will erect a new church. Address the pastor.

LEXINGTON, KY.—The Lexington Union Station Co. has been incorporated with $515,-

000 capital, to construct and maintain a union station. The site has been secured.

TROY, O.—Schilling & Roberts will erect a three-story store building, 50 x 117 ft. No architect yet selected. Cost, $25,000.

AKRON, O.—Geo. Carmichael & Co., of Akron, were the lowest bidders at $248,550, for contract to new county court house.

BLOOMINGTON, ILL.—The Board of Education, H. C. Bent, Pres., will erect a three-story, 12-room brick and stone school building. Cost, $65,000. No architect selected.

PRINCETON, IND.—Plans have been ordered for the erection of a large hospital in Princeton. Bids will be taken soon. Drs. Blair, Anderson and Zillak are the promoters.

CRAWFORDSVILLE, IND.—The Board Public Safety is preparing to ask for bids for the construction of a new fire station house.

CHICAGO, ILL.—Thos. Hulbert, 6 Madison St., will start plans immediately for 30 houses. Cost, $150,000.

BEMIDJI, MINN.—St. Philips' Catholic congregation will erect a church, 40 x 90 ft., and a priest's residence. Cost, $25,000.

MINNEAPOLIS, MINN.—The Board of Regents of the State University has appointed Ernest Kennedy, 442 Boston Block, the architect for new $60,000 ladies' hall, to be built on the campus.

ST. PAUL, MINN.—The Auditorium Commission has appointed Reed & Stern, 601 Endicott Bldg., architects for new auditorium to be erected here. Cost, $350,000.

Wm. M. Kenyon, Arch., 530 Guarantee Loan Bldg., Minneapolis, has been asked to prepare plans for new live stock pavilion to be erected by the State Fair managers on the fair grounds. Cost, $100,000.

Kees & Colburn, Archs., Minneapolis, are preparing plans for a fireproof theater to be erected at St. Peter and Fifth Sts., St. Paul. Brick and terra cotta, 3 stories, 170 x 93 ft. Cost, $150,000.

OMAHA, NEB.—T. Brown will erect a row of seven brick residences at 21st and Case Sts., from plans by F. A. Hennenger, Arch. Cost, $25,000.

BISMARCK, N. DAK.—At the request of several contractors who desire to bid on the proposed new state capitol building, and because of the complaints that have been made that the time for the filing of bonds was too short, the State Capitol Commission has deferred the opening of the bids for the building until Dec. 12.

JACKSON, MO.—The County Commissioners have voted in favor of issuing $75,000 of bonds to build a new court house and jail.

ST. LOUIS, MO.—A building permit has been issued to the Anheuser-Busch Brewing Association for a one and two-story brick warehouse and office building at 3042 South Broadway. Cost, $48,000.

KANSAS CITY, MO.—R. A. Long has been given a permit to build a 14-story building at Grand Ave. and Tenth St. Est. cost, $700,000. It is estimated that the furnishing will cost $300,000 additional.

ST. LOUIS, MO.—The Stanford Investment Co. will erect five two-story flats, at a cost of $35,000.

MIDLAND, TEX.—The county will erect a new court house at a cost of $26,000. Address the County Judge.

DENTON, TEX. — The Denton Country Club contemplates erecting a clubhouse early in the spring. J. O. Bell is Secy.

OKLAHOMA CITY, OKLA.—The contract for construction of county jail was awarded to ROBT. KRUEGER & CO. for $19,700. Bids for the jail cells will be received until Oct. 23.

SEATTLE, WASH.—SYLJASSEN & SANDE have the contract for a three-story hotel at 1010 Minor Ave. Cost, $35,000.

SPOKANE, WASH.—Frank P. Hogan has taken out a permit for a $30,000 building at First Ave. and Madison St.

SAN FRANCISCO, CAL.—Isidore and Jas. Schwartz have purchased a lot at 16th and Guerrero Sts. upon which will be erected a six-story apartment and a two-story theater.

SAN FRANCISCO, CAL.—Mrs. Rebecca Irwin will erect a brick and steel building at Fourth and Mission Sts., at a cost of $100,000.

FRESNO, CAL.—F. M. Chittenden, agent for Mrs. A. L. Wallace, has let contract to C. J. LINDGRON for a $22,000 business block on J St.

PRESCOTT, ARIZ.—Capt. Chas. C. Walcutt, Q.-M., Whipple Barracks, writes us that all proposals for the construction, plumbing, hot water heating and electric wiring of hospital opened Sept. 8 were rejected. It has not been determined when proposals will again be invited.

CALDWELL, IDAHO.—County Commissioners have voted to issue $60,000 of bonds for the erection of a court-house here.

WALLACE, IDAHO.—The Colonial Hotel Co. has been formed to erect a four-story hotel building. E. H. Moffitt, F. F. Johnson and others are interested.

REGINA, N. W. T.—The Regina Construction Co. was awarded contract, exclusive of plumbing, heating, lighting and hardwood finish and fixtures, for bank building here. Contract price, $25,870.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

YARMOUTH, ME.—We are advised that bids will be opened 2 p. m., Oct. 7, for 8-in. pipe for extension of town water-works. Supply is to be from springs, 3½ miles distant, and est. cost is $25,000. Plans and specifications are at office of L. R. Cook, Town Clk., Yarmouthville. Water Commission is in charge. C. E. Fenn, Portland, Me., is Des. Engr.; C. L. Bucknam, Chn. Selectmen.

GOFFSTOWN, N. H.—A new concrete-steel reservoir dam, 27 ft. high, for the Water Commissioners of Goffstown, is being built on the plans and under the supervision of the Ambursen Hydraulic Construction Co., of Boston.

POWNAL, VT.—Surveys are made and preliminary work is reported under way for supplying this village with water. Gardner T. Parker is interested.

GREAT BARRINGTON, MASS.—We are advised that the work of repairing and raising East Mountain Dam about 2 ft., and repairing Berkshire Heights Reservoir for a fire district will be done by local contractors. J. P. Pomeroy, Chn. Comrs., is official in charge; Chas. E. Platt, Clk. Fire District. According to press reports $10,500 was voted for the work.

LOWELL, MASS.—Extension of city water service to Atherton is contemplated. Robert J. Thomas is Supt. W.-W.

FORT ETHAN ALLEN, VT.—Bids are asked by Capt. T. B. Lamoreux, Q. M., U. S. A., Burlington, Vt., until 2 p. m., Oct. 19, for sinking two or three 8-in. tubular wells, and for piping for same, at Fort Ethan Allen, Vt.

WOONSOCKET, R. I.—Water Commissioners have awarded contract for building new coal shed foundation for new pump and extension of boiler room at pumping station to CHARLES F. PARKER, Woonsocket, for $5,779.

DANBURY, CONN.—Bids were opened Sept. 25 by Council Water Committee for constructing reservoir dam, forebay and pipe line. Peter Sweeney, Danbury, Conn., at $105,531, was low bidder, and will probably be awarded contract. See under Contract Prices.

NEW YORK, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, 13 Park Row, until 2 p. m., Oct. 11, for the following work: For furnishing, delivering and laying water mains in Fulton, Prospect, Walton and Willow Aves. and other streets; furnishing, delivering and laying a 30-in. water main and appurtenances in Avenue S and in E. 16th St., Borough of Brooklyn; furnishing and delivering stop-cocks; furnishing and delivering vitrified, salt-glazed, stoneware, hub and spigot pipe; furnishing, delivering and constructing a pipe drain at the Forest Stream filter beds, near Rosedale, L. I.

NIAGARA FALLS, N. Y.—We are advised, under date of Sept. 26, that Board of Public Works' recommendation that city purchase works of company and add a filtration plant, was still in the hands of the Common Council. W. W. Read is Cy. Engr.

ALBANY, N. Y.—Board Contract and Supply has awarded contract to ALBANY MATERIAL & CONSTRUCTION CO., at $32,442, for constructing intake from main waterway of Hudson to filtration plant. Bids were opened Sept. 18.

TROY, N. Y.—Following bids were received Sept. 26 by Board Contract and Supply for cleaning and grubbing Tomhannock reservoir site and removing 1,200 yds. silt from canal leading to Tomhannock tunnel: J. W. Bishop Co., Worcester, Mass., pulling and removing stumps from reservoir, $1 each; grubbing, $13,080; for removing silt, $4,800. Richard Ward, pulling and removing stumps, $2 each; grubbing, $10,370; removing silt, 90 cts. per yd. Michael McDonough, removing stumps, 80 cts. each; grubbing, $14,250.

TURIN, N. Y.—Town has voted to issue $14,000 of bonds for constructing water-works.

LIVINGSTON MANOR, N. Y.—We are advised that work of the Livingston Manor Water Co., mentioned in last week's issue, consists of raising present dam 5½ ft. The work is being done by day labor, and is not a large job. Wm. Chadeayne, Firtheliffe, N. Y., is Des. Engr.

MECHANICSVILLE, N. Y.—We are advised that report of C. E. Hicks, Village Engr., on improvement and additional water supply for village, has been accepted by Water Commission, and resolution adopted to submit matter to taxpayers in the near future to raise the necessary funds. Supply is to be from Plum Brook, 1½ miles distant, and est. cost is $10,000.

CRANBURY, N. J.—Bids were opened Sept. 25 for constructing water-works for Cranbury Water Co., the two lowest bidders being Fritz & Partridge, Dover, N. J., at $9,600, and Harry Morgan, Trenton, N. J., at $9,800. It is said that contract will be awarded to one of these. Chas. S. York, Baltimore, Md., is Engr.

MOORESTOWN, N. J.—Moorestown Water Co. is stated to have increased its capital stock from $40,000 to $80,000.

HARRISBURG, PA.—Bids are asked for the construction of a 5-ft. tunnel, 1,100 ft. long, through limestone rock, and the laying of 36-in. cast-iron pipe, 700 ft. long, in bed of Susquehanna River at Harrisburg. Mason D. Pratt, Engr. (Advertised, Engineering News.)

LOCK HAVEN, PA.—A local report states that directors of West End Water Co., at a meeting at Harrisburg, awarded contract for laying 18 miles of water pipe to WILLIAM RATHGEBER. Pipe line is to be laid from Queens Run to Flemington and Mill Hall, via Lockport and Lock Haven.

ANNAPOLIS, MD.—Bids are asked by Navy Department, Chas. H. Darling, Asst. Secy., Washington, D. C., until noon, Oct. 11, for reservoir at U. S. Naval Academy.

BENWOOD, W. VA.—We are advised that filter capacity of Benwood Water Co., Wilbur Schofield, Supt., is to be doubled. L. E. Chapin, Canton, O., is Des. Engr.

WAYNESVILLE, N. C.—See under Sewerage.

FORT MOULTRIE, S. C.—Contract for constructing 200,000 gallon reservoir at this post has been let to SIMONS & MAYRANT CO., Charleston, S. C., for $11,995.

DUBLIN, GA.—City is reported to be considering installing meter system.

FORT McPHERSON, GA.—Contracts for water-works improvements at this post, bids opened Sept. 6, have been awarded as follows: G. H. PITTMAN, Atlanta, Ga., constructing boiler and pump-house, $7,791; reservoir, $5,525. JOSEPH L. SWEIGARD & CO., Philadelphia, Pa., constructing power plant, $12,354; tapping and piping wells, $1,866; pipe lines and valves, $4,474.

PINEVILLE, KY.—Pineville Water Supply Co., capitalized at $20,000, has been incorporated.

OWENSBORO, KY.—Contract for water supply and suction pipe system across and underneath the Ohio River at Owensboro, Ky., has been awarded as a whole to JOSEPH G. FALCON, Evanston, Ill., by the Owensboro Water-Works Co. Owen Ford, Consult. and Supervising Engr., 710 Security Bldg., St. Louis, Mo.

MALTA, O.—We are informed that details have not been decided upon as yet for new municipal water-works for this city, nor has an engineer been employed. Est. cost is $6,000, and supply is to be obtained from McConnellsville. Bonds for the work have not been sold as yet. W. S. Connor is Village Clk. Mentioned Aug. 24.

COLUMBUS, O.—Board Public Service has awarded contract No. 12 for machinery and equipment for Scioto River pumping station to HOLLY MFG. CO., Buffalo, N. Y., for about $270,000.

LEESBURG, O.—We are advised that this village has voted for water-works to cost $16,000. Drilling for water commenced at once, and it is hoped to advertise about Oct. 16 for bids for construction. G. L. McKibben, Engr., Van Wert, O.

CINCINNATI, O.—Following bids were received Sept. 29 by Commissioners Water-Works for construction of filters, coagulation basins, and clear water reservoir, with pipe lines, valve chambers, etc.: Keeling & Ridge, Cincinnati, O., $464,050; F. H. Kirchner, Cincinnati, O., $487,566; W. J. Gawne Co., Cleveland, O., $488,112; Ferro-Concrete Construction Co., Cincinnati, O., $510,025; Pittsburg Filter Mfg. Co., Pittsburg, Pa., $514,885. Itemized bids will be given under Contract Prices in our Oct. 12 issue.

PERRYSBURG, O.—Bids are asked by Board Trustees Public Affairs, R. R. Hartshorn, Clk., until noon, Oct. 18, for furnishing materials and labor for erecting complete, on foundations prepared by the board, a 40,000 gallon steel tank on steel tower. Bids are also asked for furnishing cast iron pipe, specials, hydrants, valves, etc. Riggs & Sherman Co., Engrs., Toledo, O. (Advertised. Engineering News.)

COLUMBUS, IND.—Bids are asked by Geo. Vorwald, Cy. Clk., until 8 p. m., Oct. 5, for construction of a wooden infiltration gallery, 3 x 8 x 200 ft., in White River.

ELSIE, MICH.—Water-works may be installed here.

GRAND RAPIDS, MICH.—Bids are asked by Board Public Works, Maurice Shanahan, Pres., until 1.30 p. m., Oct. 13, for constructing a standpipe or elevated tank of concrete-steel, 80 ft. high and 50 ft. diameter. L. W. Anderson, Cy. Engr. (Advertised, Engineering News.)

ONTONAGON, MICH.—We are advised that improvements to city water-works will be made at a cost of $7,000. A circular cistern, 30 ft. diameter, is to be built at springs, and 8-in. cast iron pipe laid from it to power house. G. L. Clawsen, Houghton, Mich., is Des. Engr. Andrew Holter is Village Pres.

BOYD, MINN.—Following bids were received Sept. 26 by this village for constructing water-works, the contract being awarded to J. L. WHITE, at $5,700; (1) gravity system, (2) compressed air system: Allan Black & Co., St. Paul, Minn., (1) $8,600, (2) $8,798 and $8,510; Dwyer Plumbing & Heating Co., St. Paul, Minn., (1) $8,754, (2) $8,900; H. J. Bernier, St. Paul, Minn., (2) $6,475 and $6,350; W. D. Lovell, Minneapolis, Minn., (1) $9,000, (2) $8,950 and $8,600; Des Moines Bridge & Iron Works, of Des Moines, Ia., (1) $8,725, (2) $9,150 and $8,600; J. L. White, Sioux Falls, S. Dak., (1) $7,200, (2) $6,190 and $5,700. Oscar Claussen, Engr., St. Paul, Minn.

ELDORADO, KAN.—City votes to issue bonds for purchase of water-works.

FALLS CITY, NEB.—W. B. Schmucker and E. E. James are stated to have made offer to city to supply water for its water-works. It is proposed to sink a well at a cost of about $5,000.

BILLINGS, MONT.—Contract for construction of Corbett Tunnel, Shoshone Project, Wyo., is stated to have been awarded to CHARLES SPEAR, Billings, for $594,325. Bids were opened Sept. 6 by U. S. Reclamation, and were given under Contract Prices in our issue of Sept. 14.

MISSOULA, MONT.—Local reports state that the Blodget Creek Reservoir Co. contemplates the construction of a large reservoir.

BILLINGS, MONT.—Contract for constructing Shoshone Dam is stated to have been let to PRENDERGAST & CLARKSON, 133 La Salle St., Chicago, Ill., for $515,730. Bids were opened Sept. 5 by U. S. Reclamation Service, and were given under Contract Prices in our issue of Sept. 14.

ST. LOUIS, MO.—Board Public Works has rejected all bids received for constructing two settling basins at the Chain of Rocks and new bids are stated to be asked until noon, Oct. 10. An appropriation of $575,000 is available for the work.

JACKSONVILLE, TEX.—Bids are reported asked by this city, John C. Box, Mayor, until Oct. 10 for furnishing material and constructing water-works.

GALVESTON, TEX.—City Commissioners have awarded contract for equipping water-works pumping station at Alta Loma to A. M. LOCKETT & CO., New Orleans, La., for $15,484.

WAXAHACHIE, TEX.—City votes Oct. 14 on issuing $6,000 bonds for water system improvements.

WYNNEWOOD, IND. T.—City will probably vote this month on $10,000 bond issue for building water-works.

PUEBLO, COLO.—By a decision of the Pubelo District Court the Colorado Fuel & Iron Co. has been granted right to change the point of diversion of 7 cu. ft. of water in the Arkansas River from Pueblo to Adobe. The company has purchased the rights of the Arkansas Ditch Co., and plans to contemplate an expenditure of $900,000 in constructing a canal 38 miles in length to conduct the water from the proposed plant at Adobe to its reservoirs.

CRIPPLE CREEK, COLO.—Plat of West Beaver Creek reservoir, located by T. H. Levine and J. F. Valle, of Pueblo, Colo., has been placed on record at Cripple Creek. Supply is to be obtained from West Beaver Creek and tributaries, and reservoir dam will be 925 ft. long.

MONTROSE, COLO.—Following bids were opened Sept. 26 by U. S. Reclamation Service for completion of Gunnison Tunnel: J. G. White & Co., 13 Exchange Pl., New York, $1,541,100; John McKechney, 288 E. Ohio St., Chicago, Ill., $1,573,016; A. J. Raisch, 26 Montgomery St., San Francisco, Cal., $2,123,300. Itemized bids are given under Contract Prices.

LACONNER, WASH.—Franchise for water-works for this place has been granted to J. C. Foster.

ROSALIA, WASH.—We are advised that Prof. W. J. Roberts, of Pullman, Wash., has rendered a preliminary report on a proposed new system of water-works to cost $17,000. F. C. Chekal is Town Clk.

SEATTLE, WASH.—We are informed that new standpipes and reservoirs will be needed by this city in the near future, but no action in regard to them has been taken by the City Council. R. H. Thonson is Cy. Engr.; L. B. Youngs, Supt. Lighting and W.-W., is official in charge.

SPOKANE, WASH.—Big Bend Water Co., capitalized at $2,000,000 has been incorporated; J. H. Tilsley, John E. Petterson, Reuben Cross, R. M. Barnhart, Albert J. Laughon are incorporators.

OLYMPIA, WASH.—Olympia Water-Works Co. is stated to have secured right-of-way for new flume line up Moxlie Creek. New dams and intakes are to be constructed, according to the report.

HOOD RIVER, ORE.—Bids are asked by J. H. Shoemaker, Secy., Hood River Irrigation District, until 2 p. m., Oct. 28, for construction of canals and works.

ESTACADA, ORE.—Village is considering purchase of local water-works for $7,500, and the expenditure of $2,500 for extensions.

PILOT ROCK, ORE.—City is considering installing water-works.

CONDON, ORE.—Contract for laying pipe and constructing reservoir for city water-works has been let to R. M. GOULD, Hood River, Ore., for about $20,000. Pipe will be furnished by Tacoma, Wash., firm.

BISHOP, CAL.—Construction of 500,000 gallon reservoir for town water system is under consideration.

SANTA MONICA, CAL.—Santa Monica Land & Water Co., it is stated, is to build a concrete walled and floored 500,000 gallon reservoir back of the Soldiers' Home.

VISALIA, CAL.—Magnolia Water Co., capitalized at $5,000, has been incorporated by A. Sauerwin and H. Anthony.

REDLANDS, CAL.—Several of the private companies in this section have been merged into the Bear Valley Mutual Water Co., controlling water rights sufficient to place under irrigation all of land embraced within the Redlands citrus belt. The company, it is said, proposes to spend $300,000 in improvements.

SAN RAFAEL, CAL.—The Marin County Water Co. is said to have decided to construct a dam and reservoir in Phoenix Gulch, two miles from Ross station, to impound the waters of Phoenix and Bill Williams gulches. The water will be pumped into standpipes and passed through an aerator into the distributing reservoirs.

SAN FRANCISCO, CAL.—Northern Water & Power Co., capitalized at $5,000,000, has been incorporated by C. P. Pritchard, T. A. Allan and others.

LOS ANGELES, CAL.—Bids are asked by Board Water Commissioners, Jas. P. Vroman, Secy., until 3.30 p. m., Oct. 16, for furnishing and delivering f. o. b. cars Los Angeles, 5,050 tons cast-iron water pipe. Wm. Mulholland, Supt. W.-W. (Advertised, Engineering News.)

GRANGEVILLE, IDAHO.—We are advised that the proposition to issue bonds to purchase the water system now owned by a private company for $32,000 was defeated by a vote of 179 for to 108 against, the Idaho law requiring a two-thirds vote to legalize a bond issue. Geo. M. Robertson is Mayor.

PHOENIX, ARIZ.—Judge Hiram R. Steele, receiver of the Arizona Water Co., has been authorized to issue receivers' certificates not exceeding $100,000. The money is to be used in re-establishing the water supply of the company in Arizona, and the receiver is instructed to expend $38,134 in the reconstruction of a dam and the improvement of certain portions of the property owned by the company. W. B. Cleary is said to be in charge of the company in Phoenix.

TUCSON, ARIZ.—We are advised that contract for 2,345 ft. cast-iron water pipe with fittings for water-works extension has been awarded to ALBERT STEINFELD & CO., Tucson, for $20,334. J. B. Wright is Cy. Engr.; Thomas Conlon, Supt. W.-W., is official in charge.

PLEASANT GROVE, UTAH.—Bids are asked by Mayor and Common Council until 8 p. m., Oct. 12, for the following approximate amounts: (1) of iron or wood pipe: 4,000 lin. ft. 8-in., 8,500 lin. ft. 6-in., 21,000

lin. ft. 4-in., 24,600 lin. ft. 1-in., 10,000 lin. ft. ¾-in. service pipe. Special castings: 12,000 lbs. (if cast iron is used), otherwise 76 specials for connections to 4-in., 6-in. and 8-in. pipe. (2) 8,000 lin. ft. 12-in. vitrified sewer pipe; (3) 1 8-in. valve, 4 6-in. valves, 11 4-in. valves, 5 1-in. valves, 150 ¾-in. stop cocks, 150 ¾-in. corporation cocks, 2 4-in. pressure regulators, 7 4-in. 2-way 2½-in. nozzle hydrants, 1 8-in., 4 6-in. and 11 4-in. valve boxes (5¼-in. shaft) with bases, 42-54-in. extension, 155 2½-in. service boxes, 36 54-in. extension, 67 4-in. plugs, 160 ¾-in. and 1-in. caps, 160 ¾-in. elbows and tees; (4) 2,000 lbs. jute, 22,000 lbs. pig lead. Lyman & Wilson, Engrs. Salt Lake City, Utah. Dr. C. H. Westphal, Chn. Council.

LEWISTON, IDAHO.—The Lewiston-Sweetwater Irrigation Co., J. O. Maxon, Ch. Engr., Lewiston, is to construct an irrigation plant to water about 3,000 acres of land south of this town. It is proposed to construct storage reservoirs to conserve a supply from the watershed of Craig Mountain. We are advised that the work was to be advertised at once. H. L. Powers, Room 3, Chamber of Commerce Bldg., Portland, Ore., is interested.

DALHOUSIE, N. B.—Willis Chipman, Consult Engr., Toronto, Ont., is to prepare plans and specifications for water-works and electric light plant for this town.

DRUMMONDVILLE, QUE.—Bids are to be opened Oct. 9 for the installation of a water and electric plant for this place. W. A. Molson, Town Clk.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Common Council has passed loan order of $600,000 for construction and extension of the sewer system. William Jackson is Cy. Engr.

Following bids were opened Sept. 30 by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for 2,200 ft. of vitrified pipe sewers and drains and accessories, for the navy yard, Boston: T. H. Gill & Co., 88 Broad St., Boston, $5,638; John A. Rooney, 95 Milk St., Boston, $6,814; James Doherty, 133 Calumet St., Boston, $9,257; Frank A. Foster & Co., 34 School St., Boston, $4,184; Cefalo & Ferguson, 22 Parkman St., Dorchester, Mass., $5,458; C. M. Leach, Navy Yard, Boston, $8,763; Peter W. Hill, 141 W. Canton St., Boston, $7,884.

DANBURY, CONN.—Following bids were received Sept. 26 by the City Clerk for constructing sewer in Franklin, Main and Crosby Sts.: Wallace A. White, Danbury, $9,712; Peter Sweeney, Danbury, $9,997; Henry Spinnach, Boston, Mass., $11,499.

HARTFORD, CONN.—Construction of a sewer in Windsor St. is under consideration. Total cost would be about $55,000. F. L. Ford is Cy. Engr.

STAMFORD, N. Y.—We are advised that the Trustees will this fall construct ½ mile of sewer with necessary manholes and flush-tanks in Lake St. E. W. Moxley, Engr., Jefferson, N. Y.

PORTCHESTER, N. Y.—Bids are asked by Clement D. Camp, Village Clk., until 8 p. m., Oct. 12 for building drain in King St. and Poningo St. drainage district.

HILTON, N. J.—Hilton Improvement Association is advocating construction of sewer system for this place. Committee, Anton Bessier, Arthur J. Boyle and Geo. H. Howard, members, has been appointed.

NEWTON, N. J.—Contract for excavating and laying sewer pipe for this city has been let to ALLEN WOLFE, Netcong, N. J., for $43,291. Bids were opened Sept. 2 and were given under Contract Prices in our Sept. 21 issue.

NEW BRUNSWICK, N. J.—Bids are asked at Common Council chamber, 380 George St., until 8 p. m., Oct. 9 for constructing sewer in Jersey Ave. Samuel G. Farrell, St. Comr.

READING, PA.—Bids are asked by Board Public Works, Chas. C. Weltmer, Cy. Clk., until 3 p. m., Oct. 12 for repair and additions necessary to increase capacity of city sewerage disposal plant at Milmont to 7,000,000 gallons per 24 hours, and to maintain and operate the same. Elmer H. Beard, Cy. Engr. (Advertised, Engineering News.)

JUNIATA, PA.—Contract for constructing sewer system for this borough is stated to have been let to J. T. FINN.

WILLIAMSPORT, PA.—Bids are asked by Highway and Sewer Committee until noon, Oct. 12, for material and labor for construction of storm-water sewer, approximately 5,700 ft. long, consisting of concrete brick and terra-cotta construction. James E. Fisher, Cy. Engr. (Advertised, Engineering News.)

WASHINGTON, D. C.—D. E. McComb, Supt. Sewers, has submitted to District Commissioners following estimates of expenses of that department for the next fiscal year: Cleaning and repairing sewers, $38,000; maintenance of the new pumping station, $37,000; main and pipe sewers and receiving basins, $45,000; suburban sewers, $44,000; sewage disposal system to build dykes, $73,000; to complete the new pumping station, $63,000; machine tools and furniture for pumping station, $10,000; extension of Arizona Ave. suburban sewer, $50,000; trunk sewer to Ivy City and the northern portion of Trinidad, $50,000; extension of the California Ave. sewer, $70,000; intercepting sewer along the west side of Rock Creek, between P St. and the Military Road, $208,100; $28,000 for a sewer in the valley of Broad Creek, between Rock Creek and Soapstone Creek and up the valley of the latter stream; $100,500 for sewer in the valley of Falls Branch; $342,000 for the extension of the East Side intercepting sewer to Brookland.

CHATHAM, VA.—L. S. Randolph, Consult. Engr., Blacksburg, Va., has completed the plans and specifications for sewage disposal system for the Chatham Episcopal Institute at Chatham.

NORFOLK, VA.—W. H. Taylor, Jr., Engr., is stated to have completed plans for sewers in certain wards. W. T. Brooke is Cy. Engr.

WAYNESVILLE, N. C.—Bids are asked by Mayor and Board of Aldermen until 2 p. m. Oct. 14 for labor and material necessary for construction of 9,500 ft. 8-in. sewer, two flush tanks and twelve manholes; also for labor and material for laying 2,250 ft., 4-in. water main, 300 ft. 2-in., and 750 ft. 1-in. water line, and three Glaymorgan fire hydrants. C. G. Logan, Supt. W.-W.

COVINGTON, TENN.—City is said to contemplate construction of sewer system. Sherrod Smith is Mayor.

LEXINGTON, KY.—Bids were opened Sept. 13 for constructing main sewers for this city, the contract being awarded to HILL-GAYNARD CONSTRUCTION CO., East St. Louis, Ill., for $79,813. Hering & Fuller, New York, were Consult. Engrs. Itemized bids are given under Contract Prices.

DAYTON, O.—Bids were received Sept. 26 by Board Public Works, F. M. Turner, Cy. Engr., for sewage pumping station. Contracts being awarded as follows: Pump house, M. J. GIBBONS, Dayton, $2,295; pumping plant, DAYTON HYDRAULIC MACHINE CO., Dayton, $1,650.

CLEVELAND, O.—The estimates for sewer work for next year are said to cover the construction of 32 miles of sewers, at an est. cost of $1,445,097.

DAYTON, O.—Following bids were received Sept. 29 by this city for constructing sanitary sewers in District No. 4, between Third, Springfield and Irwin Sts. P. W. Minnigan, $11,054; Paul & Kershner, $11,642; M. O. Herron & Co., $11,806.

CLEVELAND, HEIGHTS (Fairmont P. O.), O.—Bids are asked by Wm. G. Phare, Village Clk., 402 American Trust Bldg., Cleveland, until Oct. 24 for construction of sewers in Florence, Cadwell, Center and Coventry Aves., and other streets. Wm. H. Evers Engineering Co., Engrs., 237 The Arcade Bldg., Cleveland, O.

PORTSMOUTH, O.—Bids are asked by Board Public Service, Chas. E. Schirrman, Clk., until noon, Oct. 26, for the construction of main sewer, manholes, catch-basins, branches, etc., and outlet on Robinson Ave. Est. cost $35,000. B. C. Bratt, Cy. Engr.

CINCINNATI, O. — Following bids were opened Sept. 21 by Board Public Works for the Bloody Run and Ross Run sewer extension: Thomas P. Strack, $171,355; McCarthy Bros., $183,058; Henkel & Sullivan, $188,825; Kirchner Construction Co., $203,808; Wm. Heffron Construction Co., $285,908. City engineer's estimate of cost is $190,405.

COLUMBUS, O.—Bids are asked by Board Public Service, Charles H. Frank, Secy., until noon, Nov. 2, for construction of sewage purification works. Julian Griggs, Ch. Engr., Dept. Pub. Service. (Advertised, Engineering News.)

YOUNGSTOWN, O. — Bids are asked by Board Public Service, G. T. Prosser, Clk., until noon Oct. 12 for constructing sewer in Lydia St.

GREENFIELD, IND.—City Council has ordered city engineer to prepare plans and specifications for a sanitary sewer in the eastern part of the city.

MIDLAND, MICH.—Bids are asked by Ira Fales, Cy. Clk., until 5 p. m. Oct. 9 for construction of sewers in Buttles St. Sewer District No. 1, and Hubbard Sewer District No. 2. F. T. Gibbs, Engr.

ST. CLAIR HEIGHTS, MICH.—Election is to be held to vote on question of sewers and water supply.

JACKSON, MICH.—Bids are asked by Board Public Works, J. F. Harrison, Supt., until 9 a. m., Oct. 12 for construction of intercepting sewers, sewage pumping station and sewage purification works; bids are also asked for building extension of Third Ward sewer.

CHICAGO, ILL.—As stated in our last week's issue, the Board of Local Improvements has rejected the bids for the system of concrete sewers in 95th St. and adjoining streets, also for the sewage pumping station, including centrifugal pumps. The reason for the rejection was that the bids exceeded the assessment and that there were only two bids submitted. The Board expects to delay the readvertising sufficiently to give other contractors an opportunity to bid on the work. C. D. Hill is Engr., Bd. Local Improvements.

ROCKFORD, ILL.—Bids are asked by Board Public Improvements until 11 a. m., Oct. 11, for constructing sewers in portions of Elm St., 7th St., and 7th Ave.; est. cost, $6,940. Edwin Main, Cy. Engr. (Advertised, Engineering News.)

OTTAWA, ILL.—Contract for construction of sewer in Second Ave. has been let to L. HOSSACK for $3,840.

GREEN BAY, WIS.—Bids are asked by Committee on Sewers and Plumbing, City Clerk's office, until 2 p. m., Oct. 12, for constructing 540 lin. ft. 18-in. vitrified pipe sewer in Quincy St.

AMES, IA.—Following bids were received Sept. 25 by A. B. Maxwell, Cy. Clk., for constructing pipe sewers: R. C. De La Hunt, Cedar Rapids, Ia., $19,557; Des Moines Bridge & Iron Works, Des Moines, Ia., $21,976; W. F. Cook, Des Moines, Ia., $22,340; King, Lambert & Co., Des Moines, Ia., $23,323; W. A. Bilgar, Cedar Rapids, Ia., $23,920; Jas. Horabin, Des Moines, Ia., $24,129; W. C. Furgeson, St. Joseph, Mo., $24,655; O. P. Herrick, Des Moines, Ia., $26,645. A. Marston, Engr., Ames, Ia.

DAVENPORT, IA.—Contract for construction of lateral sewers in district between Brady and Farman Sts., bids opened Sept. 19, has been let to PEOPLE'S CONSTRUCTION CO.

INDIANOLA, IA.—We are advised that the engineering work has been completed for sewer system for this place, and it is probable that the work will be done this fall. B. F. Clayton is Mayor. Est. cost is said to be $30,000.

MOORHEAD, MINN.—Bids are asked by this city, H. E. Roberts, Cy. Clk., until 6 p. m., Oct. 16, for construction of a main outfall sewer. Oscar Claussen, Consult. Engr., National German-American Bank Bldg., St. Paul, Minn.

ALBERT LEA, MINN.—We are advised that an $18,000 bond issue has been voted for Spring Lake sewer. L. P. Wolff, St. Paul, Minn., is Des. Engr.; C. E. Brainerd is Cy. Clk. Wm. Barneck, Cy. Engr., writes us that the above work will consist of about 1,050 ft., 18-in. pipe sewers, 5 ft. average cut; 390 ft. 50-in. brick sewer; 800 ft. 48-in. brick sewer, 22 ft. average cut; 471 ft. 36-in. brick sewer, 12 ft. average cut. Bids will probably be opened about Oct. 17.

IOLA, KAN.—We are advised that construction of pipe sewers has been ordered for district No. 11; no estimate made as yet. Geo. Myers, Cy. Engr.

BISMARCK, N. DAK.—Bids are asked by R. H. Thistlewaite, Cy. Audr, until 8 p. m., Oct. 11, for construction of sewers aggregating 4,480 ft. of 8-in. pipe; 1,900 ft. of 10-in., 3,420 ft. of 12-in.; 17 manholes and 4 combination flush tanks. S. F. Crabbe, Engr, Fargo.

ALBANY, MO.—The Albany "Argus" suggests that the city secure an engineer to make estimate for a sewer system.

GALVESTON, TEX.—Following bids were received Sept. 20 by City Commissioners for reconstruction of 10th St. sewer: E. G. Trueheart, $6,856; Galveston Gas Fitting & Plumbing Co., $8,405.

McKINNEY, TEX. — The new Odorless Sewerage Co. has been organized with J. L. White, Pres., to construct sewerage system.

HOUSTON, TEX.—This city, according to reports, is calling for bids until 3 p. m. Oct. 9 for construction of Preston Ave. tunnel sewer. Est. cost is $6,500. I. Austin Miller is Cy. Engr.

SEATTLE, WASH.—Ordinance has been passed for constructing sewer in Weller St., at est. cost of $4,780. R. H. Thomson is Cy. Engr.

PORTLAND, ORE.—Following bids were received Sept. 22 by Board Public Works for constructing Irvington District Sewer: Pacific Bridge Co., $133,765; Paquet, Giebisch & Joplin, $144,134; J. B. Siemmons, $154,869; Fryburg Bros., $158,385; Harry Howard, $138,606.

FORT MILEY, CAL.—Bids are asked by Col. Wm. S. Patten, A. Q. M. G., San Francisco, Cal., until 11 a. m., Oct. 21 for reconstruction of sewer outfall at Fort Miley.

OAKLAND, CAL.—Board Public Works is reported to be calling for bids for the construction of a concrete sewer to extend from the termination of the present concrete sewer in 22d St. to the Estuary of San Antonio. Work to be done at a cost not to exceed $8,500.

GRANGEVILLE, IDAHO.—Prof. W. J. Roberts of Pullman, Wash., has made the surveys and is preparing plans for a complete sewerage system for this place. Grangeville has a population of 2,200 yet is without a railroad nearer than Stites, the present terminus of the Northern Pacific's Clearwater Branch. Geo. M. Robertson is Mayor.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids were received on Oct. 3 for removing snow and ice in Borough of Brooklyn before April 15, 1906, as follows: William Bradley, 320 West 86th St., 27c. per cu. yd.; Donlon Cont. Co., 84 Broadway, 27c.; Charles Hart, Fourth Ave. and De Graw St., 36c.; O'Grady Bros., 39c.; Hill & Hayes, 45c.; M. T. Maher, 40c.; John T. Maillie, 33c.; Newman Construction Co., 25c. (informal); Brocken-McAveney Co., 33⅓c.; McDermott & Foxton, 38c.; Haley & Kegan, 42c.; Charles Cranford, 33⅓c.; Norton & Gorman, 33⅓c.; T. Donovan & Son, 42c.; M. T. Hickey, 70c.; Bofri & Ohearn, 65c.

ROCKFORD, ILL.—John O'Garr, representing the National Garbage Reduction Co., has submitted proposition to council regarding erection of a reduction plant. Matter was taken under consideration.

MINNEAPOLIS, MINN.—City council has voted to request the Board of Tax Levy to provide $35,000 for the construction of a garbage crematory to replace the plant destroyed by fire recently. P. M. Hall is Comr. Bd. Health.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

CONCORD, N. H.—We are informed that the contract for constructing gravel road in town of Rye was awarded to HETT BROS., of Portsmouth, for $5,560. Bids were opened Sept. 26 by State Highway Commission as advertised in Engineering News Sept. 14 and 21. A. W. Dean, State Engr.

BOSTON, MASS.—ROBT. EAGER, of Roxbury, has been awarded the contract for paving and regulating Atlantic Ave., from Broad to Commercial St., for $5,848.

HAMDEN, CONN.—The contract for macadamizing a section of road in Hamden has been awarded by J. H. Macdonald, State Highway Comr., to FRANK BRAZOS, of New Haven, for $5,670.

NEW YORK, N. Y.—The following bids were opened Sept. 28 by Jas. F. Ahearn, Pres. Boro. Manhattan; (a) repaving with wood blocks on concrete foundation on West Broadway, from Dey to West Fourth St.; (b) Park Place, from Broadway to West St.; (c) Battery Place, from Broadway to West St.; (d) Broadway, from Vesey St. to Battery St.: Eppinger & Russell Co., 68 Broad St., (a) $159,393, (b) $27,520, (c) $36,127, (d) $70,251; Franklin Const. Co., 1 Hudson St., (a) $154,022, (b) $25,745, (c) $34,009, (d) $67,790; Republic Const. Co., 18 Broadway, (a) informal, (b) $25,708, (c) $34,113, (d) $65,111; U. S. Wood Preserving Co., 29 Broadway, (a) $147,923, (b) $24,173, (c) $33,311, (d) $63,630.

NEW YORK, N. Y.—The following bids were received by Jas. F. Ahearn, Pres. Boro. Manhattan, on Sept. 28, for repaving with asphalt on concrete foundation on (a) Lenox Ave., from 135th to 145th St., and (b) Lenox Av., from 125th to 135th St.: Asphalt Const. Co., 207 Broadway, (a) $26,990, (b) $25,980; Barber Asphalt Paving Co., 114 Liberty St., (a) $25,505, (b) $24,562; Century Const. Co., 5 East 42d St., (a) $34,508, (b) $33,209; Uvalde Asphalt Paving Co., 1 Broadway, (a) $27,955, (b) $26,975; Sicilian Asphalt Paving Co., Times Bldg., (a) $36,305, (b) $34,965.

ENGLEWOOD, N. J.—We are advised that the contract for macadamizing, curbing, guttering and flagging on Charles St. was awarded to CHAS. BRUCKER, of Englewood, Willard Cass, Cy. Engr.

HARRISBURG, PA.—Bids are asked by State Highway Commission until Oct. 18 for constructing 27,700 ft. of road in Bucks County. Jos. W. Hunter, State Highway Comr.

Bids will be received at the same time and place for constructing 16,242 ft. road; also 4,530 ft. brick paving in Venango County.

Bids will be received until Oct. 11 for constructing 22,200 ft. road in Blair County.

READING, PA.—Select Council has appropriated $10,000 for street repairs. Elmer H. Beard is Cy. Engr.

HARRISBURG, PA.—Sealed proposals will be received by State Highway Department until Oct. 18 for construction of 5,555 ft. of road, extending from west end of Mercer St. bridge through Kerrtown; also 2,100 ft. of brick paving in Crawford County.

BALTIMORE, MD.—Bids are wanted by the Roland Park Co. for grading about 30,000 yds.

KEYSER, W. VA.—We are informed that this town has voted in favor of issuing $20,000 of bonds for street paving and sewerage. J. L. Githens, Recdr.

FORT OGLETHORPE, GA.—Bids are asked by Capt. C. Nixon, C. Q. M., until Oct. 16 for paving driveway in nine stables with vitrified brick.

JACKSON, KY.—H. H. Gibson, Engr., writes us that no bids were received for the macadamizing of four streets, bids for which were opened Sept. 25. The work will probably be readvertised.

COVINGTON, KY.—City Council is considering the paving of Madison Ave. from Fourth to 12th Sts. with bitulithic, at an approximate cost of $50,000. W. E. Gunn is Cy. Engr.

CLEVELAND, O.—Contracts for paving of roadways at the grade crossing work in progress on Detroit St. and Wilson Ave. were let out by Board Public Service, Sept. 25. The NORTHERN OHIO PAVING & CONSTRUCTION CO., was awarded the contract at the Nickel Plate crossing on the West Side at its bid of $29,000, while the STANDARD PAVING CO. secured the Erie crossing work at its bid of $12,000.

FINDLAY, O.—Sealed bids will be received by Board Public Service until Oct. 12 for paving Liberty St. with vitrified block on a concrete base. J. C. Edle, Clk.

NORWOOD, O.—Bids are asked by Board Public Service until Oct. 14 for grading, macadamizing and graveling a portion of Marsh Ave. J. A. Stewart, Cy. Engr., 813 Traction Bldg., Cincinnati.

DAYTON, O.—Bids were opened Sept. 29 for paving Oak St. from Brown St. to Wayne Ave. The following were the lowest bidders on the various materials: Sheet asphalt, Barber Asphalt Paving Co., $15,852; Logan block, Hocking Valley block, Harris Paver, Metropolitan block, J. E. Conley, $16,423, $16,609, $16,702 and $16,888, respectively; Gloucester, Wassall, Trimble and Carlyle block, David Beard, $16,809, $16,829, $16,853 and $17,271, respectively; Townstiff block, J. O. Shoup & Co., $16,967; Bolan block, Wm. J. Kernan, $17,365; 20th Century block, Couch & Kunkle, $16,868; Buckeye block, Couch & Kunkle, $16,961; creosote, J. O. Shoup & Co., $28,128; Nelsonville block, M. O. Herron & Co., $17,702; Athens block, Herron & Co., $17,609; bituminous macadam, Warren Bros. Co., $21,540. F. M. Turner, Cy. Engr.

WOOSTER, O.—Bids were opened by Board Public Service Sept. 20 for paving North Buckeye St. Bids were received as follows: John Graeber—Wooster wire cut, $8,076; Canton block, $7,547; Canton wire cut, $8,014. H. D. Shannon—Wooster block, $9,401; Metropolitan block, same; Canton block, $9,401; Wooster wire cut, $9,100; Canton wire cut, 1,132. Dennis Landers—Wooster block, $8,992. Long & Winters—Wooster block, $9,788; Wooster wire cut, $9,241.

BUCYRUS, O.—Petitions have been presented to City Council asking for the paving of Lucas and Prospect Sts. C. P. Bryant is Cy. Engr.

NORWALK, O.—It is reported that bids will shortly be received for paving with brick a part of East Main St.

ZANESVILLE, O.—Sealed bids will be received by Board Public Service until Oct. 14 for paving and curbing Fountain Square. E. H. Smith, Cy. Engr.

DAYTON, O.—HECKER & KERSHNER were awarded the contract, at $2,688, for paving O'Bell Court with Hocking Valley block.

CINCINNATI, O.—Bids are asked by Board Public Service until Oct. 24 for grading, setting curbs and macadamizing on Ashland Ave. Geo. F. Holmes, Clk.

INDIANAPOLIS, IND.—Board Public Works has let a contract for paving of Lexington Ave. to the BARBER ASPHALT PAVING CO.

COLUMBUS, IND.—City Council is asking for bids for the construction of a large amount of cement gutters and sidewalks. W. H. Rights is Cy. Engr.

GREEN BAY, WIS.—Bids are asked by Committee on Streets and Bridges until Oct. 20 for about 8,320 sq. yds. macadam pavement and 600 cu. yds. excavation. W. W. Read, Cy. Engr.

SHERMAN, TEX.—Bids are asked by Henry Zimmerman, Cy. Secy., until Oct. 23 for paving portions of several streets with vitrified brick, consisting of 14,290 sq. yds. paving and 4,145 lin. ft. stone curbing. Chas. H. Haydon, Cy. Engr.

DANVILLE, IND.—Bids are asked by County Commissioners until Oct. 14 for construction of Stilesville gravel road, 13,574 ft. ,and the Eminence gravel road, 10,730 ft. David D. Mills, County Audr.

GRAND RAPIDS, MICH.—The following approximate estimates were presented by L. W. Anderson, Cy. Engr., to the Board Public Works for grading and graveling: Horton Ave., $23,640; East Bridge St., $30,520; Horton Ave., from Griggs Ave. to Crofton Ave., $13,600; Calkins Ave., $2 740.

BIG RAPIDS, MICH.—The city has voted to issue bonds for street paving.

KEWANEE, ILL.—Contract for laying of asphalt paving on Second St. was awarded by Board Local Improvements to the BARBER ASPHALT PAVING CO., for $30,417.

ALTON, ILL.—The Board Public Improvements has prepared ordinances and diagrams for about six miles of street paving.

SPRINGFIELD, ILL.—The Board Public Improvements at its meeting of Sept. 25 postponed further consideration of the proposed paving of Walnut St. with asphalt until Oct. 16. Frank Hamilton is Cy. Engr.

WILMETTE, ILL.—E. E. Orner, Vil. Clk., will shortly receive bids for construction of cement sidewalks.

MONMOUTH, ILL.—City Council has voted in favor of paving North Ninth and North Third Sts. with brick. Est. cost, $22 056.

BURLINGTON, IA.—It is stated that Angular St. will soon be paved with brick.

GLENWOOD, IA.—Council is considering the paving of the public square.

TRACY, MINN.—The Council has adopted specifications for construction of cement walks.

ST. PAUL, MINN.—The Board Public Works let contract for the Oliver St. grading to D. W. MOORE, at $1 987.

MADISON, S. DAK.—Cement sidewalks were ordered on certain streets.

PINE BLUFFS, ARK.—It is stated that City Council has appropriated $12,000 for the purpose of paving Main St., from Sixth Ave. to 20th St. J. P. Harper is Cy. Engr.

SAN MARCOS, TEX.—City will vote Oct. 31 on the issuance of $3,000 of bonds for street improvements. J. R. Porter, Mayor.

SHERMAN, TEX.—Chas. E. Haydon, Cy. Engr., informs us that plans and specifications have been completed for paving with vitrified brick about 14,290 sq. yds.

SHAWNEE, OKLA.—City Council has ordered the paving with brick or asphalt of several streets. Contracts will be let in about three weeks.

SPOKANE, WASH.—The Board Public Works has notified the City Council that it will cost $18,810 for asphalt paving on Monroe St. A. F. Gill is Cy. Engr.

SEATTLE, WASH.—Ordinances have been passed for the improvement of Westlake Ave., from Pike St. to Denny Way, by paving same with asphalt, at an estimated cost of $40,000. R. H. Thompson, Cy. Engr.

PORTLAND, ORE. — A resolution was adopted by Streets Committee of City Council recommending the improvement of Second St. by laying a smooth surface pavement the entire length. Chas. Wanzer is Cy. Engr.

LOS ANGELES, CAL.—Board Public Works has awarded the contract for grading, curbing and sidewalking on 39th St. to B. F. FORD, for $4,890.

OAKLAND, CAL.—Bids were opened Sept. 18 by Board Public Works for macadamizing on Harrison Boulevard. The contract was awarded to the PIEDMONT PAVING CO., the estimated cost being $5,011.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

LAWRENCE, MASS.—The American Woolen Co. has had plans prepared for a woolen mill, on Merrimac St. Cost, $200,000. Address Wm. M. Wood, Andover, Mass.

NEW YORK, N. Y.—H. DAVIS, 1426 Second Ave., has been awarded carpenter work and MURPHY & SON, 761 11th Ave., the mason work for new factory to be erected at 211-15 West 19th St., for C. P. Ketterer, 214 West 17th St. Ross & McNeil, 39 East 42d St., are Archs. Brick and stone, 5 stories, 50 × 100 ft.

Schickel & Ditmars, Archs., 111 Fifth Ave., have completed plans for new factory to be erected at 134-6 East 18th St., for J. S. Huyler, 863 Broadway. Brick and stone, fireproof, 10 stories, 50 × 82 ft.

NEW YORK, N. Y.—A. E. Davis, Arch., 138th St. and Third Ave., has awarded general contract for factory to be erected at 134th St. and Southern Boulevard to WM. ELDERD, 2281 Third Ave. Brick, 5 stories, 43 × 50 ft.

JERSEY CITY, N. J.—E. KENNEY, 277 Fifth Ave., Jersey City, has been awarded mason work, and J. J. KULL, 469 Pacific Ave., Jersey City, the carpenter work for new factory to be erected at Jersey City for the American Ferment Co., from plans by W. A. Tilton, Jersey City. E. A. Chandler, 120 Liberty St., New York City, is the consulting engineer, and desires figures on generators, motors and electric wiring. Brick, 3 stories, 42 × 150 ft.

NEWARK, N. J.—J. S. Pigott, Arch., 188 Market St., Newark, has plans in progress for factory to be erected on Oliver St., Newark. Brick, 2 and 3 stories, 40 × 60 ft.

Same architect is ready for figures on factory to be erected at 391 Mulberry St., Newark, for Mehlbach Saddle Co., care W. C. Mehlbach, 393 Mulberry St. Brick, 4 stories, 25 × 100 ft.

WILKES BARRE, PA.—Contract for an automobile factory here for the Mathewson Automobile Co. has been let to W. H. SHEPHERD & CO., 478 South Main St.

CHESTER, PA.—Stevenson Co., 1603 West Third St., has invited bids for new factory. Brick, 1 story, 280 × 80 ft. New electrical equipment will be required.

READERS' WANTS If any one is in the market for any engineering or contracting supplies, the first thing to do is to refer to our advertising pages, but if the buyer cannot find what he wants we particularly ask that he notify us at once and we will inform the proper parties without cost to the inquirer. A copy of **ENGINEERING NEWS BUYERS' GUIDE** will be mailed to any one upon application. This paper will always appreciate any news notes regarding public, or important private work, and will be pleased to receive detailed items. Requests to hold names will be complied with in every case. **Do not fail to write our advertisers or us.**

CORE DRILL.—Oakfield, N. Y.—F. A. Jones, U. S. Gypsum Co., writes for information regarding a core drill for sinking test holes.

VALVES.—Salem, Va.—J. N. Ambler, Main and Broad Sts., states that he is in the market for pressure regulator valves and safety valves for water mains.

MILL.—Sykesville, Carroll Co., Md.—We are informed that Edward McKnight, Box 124, is in the market for a mill to grind feldspar, flint and mica.

ELECTRIC HEATING SYSTEMS.—Liberty, N. Y.—Ernest C. White, Engr., Loomis Sanitorium, writes that he would like to hear from firms making a specialty of electric heating systems.

SPIRAL STAIRWAYS.—Cocoanut Grove, Fla.—R. L. Stewart, Box 161, states that he wishes to communicate with firms manufacturing plain, inexpensive iron spiral stairways.

TANKS ON WHEELS.—New York.—A. Leon Grajeda, 32 Broadway, desires catalogues and prices of iron tanks on wheels, with hose and pump attached, to clean cesspools, sewers, etc.

NAILS.—Kingston, Jamaica, B. W. I.—J. H. Dodd, Asst. Engr., Jamaica Government Railway, desires information regarding nails with letters on their heads, to be driven into sleepers, to indicate the different kinds of wood used.

PUMPING ENGINE.—Rockford, Ill.—Frank J. Phinney, Supt. of Water-Works, writes us that the city is considering the purchase of a pumping engine of a daily capacity of 8 or 10 million gallons, to be installed at the city pumping station during the year 1906.

ENGINES, MOTORS.—St. Petersburg, Russia.—N. M. Tager, Sagorodny Prosp., 23, writes us that he is in the market for heating, naphtha, gas, and gasoline motors and producer gas engines. He also states that he desires to represent an American engine firm.

PUMP, ENGINE.—Westport, Conn.—The Westport Water Co., F. B. Hubbell, Supt., writes us that it is in the market for a 6-in. centrifugal pump, direct connected to a steam engine, and capable of pumping 1,000 gallons per minute: also complete with suction and discharge pipes and elbows.

CARLISLE, PA.—H. W. Savidge of Shamokin, is interested in a brewery to be erected here.

BRADFORD, PA.—The plant of the Union Dish Co. was destroyed by fire. Loss, $35,000.

BALTIMORE, MD.—The Baltimore Enamel & Novelty Co., foot of Allen St., has awarded contract to FREDERICK DECKER & SON, 1209 East Biddle St., for extensive alterations to be made to its plant.

The Baltimore & Ohio R. R. Co. has awarded contracts to EDWARD BRADY & SON, 1113 Cathedral St., for the construction of a number of repair shops and roundhouses at its repair plant at Riverside after plans and specifications by J. E. Greiner, Ch. Engr., Baltimore. Plans provide for two roundhouses, 97 × 536 ft.; engine and boiler-house, 40 × 100 ft.; blacksmith shop, 60 × 100 ft.; machine shop, 100 × 100 ft.; carpenter shop, 30 × 100 ft.; office and storage house, 30 × 100 ft.; oilhouse, 30 × 50 ft.; coal chutes, 40 × 150 ft.; sandhouse, 25 × 75 ft.; coal tipple, 25 × 537 ft. Buildings are all to be constructed of brick and steel with slag roofs; reinforced concrete work; steam heating system, steel doors; cost, about $500,000.

BALTIMORE, MD.—M. Pimes & Co., 113 North Gay St., manufacturers of furniture, have awarded contract to JOHN A. SHERIDAN CO., 321 North Holliday St. for construction of factory building at Front and Low Sts. Henry J. Tinley, Arch., 11 East Lexington St. Cost, about $35,000.

ALEXANDRIA, VA.—The State Corporation Committee of Virginia has granted charters to the Monolith Steel Co. to deal in iron and steel and other metals and the manufacture thereof, and the Virginia Southwestern Coal & Timber Co., which will do a general business in these commodities. The former concern is capitalized at $250 000 and the latter at $500 000. The principal offices of both will be in Alexandria. The incorporators of the steel company are Washington people. John F. Golding is President; H. N. Lois, Secretary; and Samuel P. Carter, Treasurer. The incorporating officials of the coal and timber company are also Washington men. They are J. H. Merriwether, President; Geo. E. Terry, Secretary, and H. F. Handler, Treasurer.

BENWOOD, W. VA.—It is stated that the Wheeling Steel & Iron Works will make extensive improvements to its works.

FAYETTEVILLE, N. C.—The Flora Cotton Mill Co., recently chartered, will build soon, a site having been purchased southwest of the city. Capital, $400,000. William Coleman, of Whitmire, S. C., is one of the chief promoters. The President is Dr. H. W. Lilly; W. D. McNeill is General Manager; and J. K. S. Ray, Treasurer. The mill will use electric power.

NEWBERRY, S. C.—S. B. Jones will organize a company with $10,000 capital to erect an ice factory here.

GAINESVILLE, GA.—A furniture factory, to cost $25,000, will probably be established here by the Chattahoochee Furniture Co., of Flowery Branch, Ga., of which O. A. Aderton is president.

GOUGH, GA.—The Planters' Supply Co., Ltd., capital stock $25,000, will arrange for the erection of a cottonseed-oil mill about Jan. 1, 1903. An eight 70-saw cotton-gin outfit will also be installed.

HUNTSVILLE, ALA.—According to the "Pink Sheet Daily Bulletin," of Chattanooga, Tenn., E. L. Pulley will erect a $40,000 warehouse.

ISBELL, ALA.—J. Gaisser is arranging for the erection of a corn mill. Later it is proposed to build a saw mill and a two-stand 60-saw gin.

BILOXI, MISS.—A $10 000 laundry will be erected here. John F. Williams, Mgr.

MERIDIAN, MISS.—The Mississippi Lumber Co., of Quitman, will establish a lumber mill here.

BILOXI, MISS.—Biloxi Artesian Ice Co. will increase its capital stock from $30 000 to $60,000 and erect building for increasing present capacity.

MEMPHIS, TENN.—The Memphis Brewing & Malting Co. recently made an application for a charter to do business in Memphis. The company will have a capital of $200,000, and will erect buildings and equipment at a cost of at least $150,000. The promoters are Felix T. Pope, D. A. Fisher, A. J. Olson, M. H. Martin, Rhea P. Cary and L. T. Kavanaugh. The main building of the brewery will be five or six stories and will be of fireproof brick. A cold storage and ice plant will be installed and the most modern electrical machinery will be used.

SOUTH PITTSBURG, TENN.—The Modern Building Material & Constructing Co. has been incorporated, with $5 000 capital stock, by H. Blacklock, R. W. Williamson and associates, to manufacture concrete building blocks.

SPRINGFIELD, O.—The Springfield Coal & Ice Co., H. Voges, Gen. Mgr., will erect a three-story cold storage plant, 40 × 60 ft.

SPRINGFIELD, O.—The Thomas Mfg. Co. contemplates erecting a one-story foundry to cover approximately 25,000 ft. of ground space. C. A. Shaffer is Gen. Mgr. No architect yet retained.

DETROIT, MICH.—The United States Heater Co., Henry T. Cole, Gen. Mgr., 251-57 Campbell Ave., has had plans prepared for three factory buildings. Cost, $10,000.

BROOKS, MICH.—Saw mill of Naudeau Bros. was destroyed by fire; loss, $50,000.

GALESBURG, ILL.—W. T. Krausch, Arch., Adams and Franklin Sts., Chicago, is preparing plans for a 15,000 ton ice house, to be erected here for the C. B. & Q. R. R. Bids will be received by architect. Cost, $45,000.

APPLETON, WIS.—It is stated that the Brighton Boat & Supplies Co. will erect a boat factory.

The W. J. Jennison Co. will rebuild its burned flour mill on a larger scale.

DES MOINES, IA.—L. Harbach has awarded contract for the new five-story and basement brick furniture factory to be erected at Fifth and Elm Sts., to H. EILENBERGER & CO., of Chicago, Ill., for $36,000. This is exclusive of the heating, plumbing, elevator, etc. New machinery is to be added.

STILLWATER, MINN.—C. H. Carli and others propose the erection of a factory to make patent horse blanket.

GROTON, S. DAK.—A company will be formed here under the name of Groton Foundry & Machine Co., to establish a foundry and machine shop. A building, 30 × 50 ft., of cement blocks will be built. E. C. Nordyke is interested.

ST. LOUIS, MO.—The Scullin-Gallagher Iron & Steel Co. will erect an iron foundry at a cost of $69,500.

OLA, ARK.—W. W. and V. Infield will operate an ice, cold storage and electric light plant. A one-story building, 44 × 36 ft., will be erected.

DALLAS, TEX.—The Pennsylvania Ice Machine Mfg. Co. contemplates erecting an ice factory here, with a capacity of 5,000 tons per day.

HILLSBORO, TEX.—The Home Ice Factory contemplates purchasing a 7½ or 10-ton ice machine for next season, and will want quotations on same. Louis Haberzettle, Mgr.

HOUSTON, TEX.—R. S. & J. M. Fram, of St. Elmo, Ill., will probably locate a paper mill here. H. W. Cortes, of the Business League, can give information.

DALLAS, TEX.—Sealed proposals will be received until Oct. 9 on brick oil mill building and frame seed and hull house. Plans and specifications on file at office of John Williams Taylor, 101 South Houston St.

LUFKIN, TEX.—The Kurth-Wiener laundry was destroyed by fire. The plant will be rebuilt at once.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DRAINAGE DITCH.—Des Moines, Ia.—County Supervisors have awarded contract for constructing Palestine township drainage ditch to O. P. HERRICK, Des Moines, for $8,789.

JETTY.—Washington, D. C.—Bids are asked until noon, Nov. [illegible] for constructing jetty at Carters Creek, Va. Lt.-Col. R. L. Hoxie, U. S. Engrs. (Advertised, Engineering News.)

DITCH WORK.—Olivia, Minn.—Bids are asked by H. J. Lee, County Audr., 3 p. m., Oct. 16, for constructing ditch 22. The work approximates 70,607 cu. yds. and est. cost is $8,826.

DREDGING.—Washington, D. C.—Bids are asked until noon, Oct. [illegible] for dredging in Potomac River, near Washington. Lt.-Col. R. L. Hoxie, U. S. Engrs. (Advertised, Engineering News.)

EARTH REMOVAL.—Portsmouth, N. H.—Bids are asked by Bureau Yards and Docks, Washington, D. C., until 1[illegible] m., Oct. 28, for removal of earth and rock at Navy Yard, Portsmouth.

DREDGING.—New York, N. Y.—Bids are asked until noon, Oct. 16, for dredging in Saugerties Harbor and W[illegible]inger Creek, N. Y. Col. W. R. Livermore, U. S. Engrs. (Advertised, Engineering News.)

PIER WORK.—Grand Rapids, Mich.—Col. M. B. Adams, U. S. Engrs., has awarded contract for repairs to piers and revetment at Charlevoix Harbor to NELSON J. GAYLORD, Ludington, Mich., for $14,000.

AMMUNITION HOISTS.—Washington, D. C.—Bids are asked until 2 p. m., Nov. 3, for furnishing and delivering chain ammunition hoists. Major Frederic V. Abbot, U. S. Engrs. (Advertised, Engineering News.)

VACUUM CLEANING SYSTEM.—Lincoln, Neb.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, D. C., until 3 p. m., Oct. 23, for a vacuum cleaning system complete in place for U. S. court-house and post-office building at Lincoln.

PIER WORK.—New York, N. Y.—Bids are asked by Frederick H. Schroeder, Pres. Bd. Comrs. of Quarantine, 62 William St., until noon Oct. 10 for repairing and reconstructing pier at Quarantine Station, Swinburne Island, New York Harbor.

DREDGING.—New York, N. Y.—Bids are asked until noon, Oct. 17, for dredging in Raritan, South and Shrewsbury Rivers, N. J., and channel between Staten Island and New Jersey. Col. W. R. Livermore, U. S. Engrs. (Advertised, Engineering News.)

CONDUITS.—Atlantic City, N. J.—City Electrician Farraud is stated to have prepared plans for eventually placing all overhead wires in this city in conduits. $3,500 is included in city budget for placing electric light and city wires on the Boardwalk in conduits.

TOWERS, TANKS, ETC.—Washington, D. C.—Bids are asked by D. W. Ross, General Purchasing Officer, Isthmian Canal Commission, until 10.30 a. m., Oct. 13, for furnishing three water towers and tanks and six earth spreaders. (Advertised, Engineering News.)

GRADING, SOILING, ETC.—New York, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, 13 Park Row, until 2 p. m., Oct. 11, for grading, soiling, seeding and sodding around new Ridgewood pumping station, and a portion of grounds at old Ridgewood pumping station.

OIL PIPE LINE.—San Francisco, Cal.—A contract for laying a corrugated oil pipe line from the Kern River fields to Delano, along the right-of-way of the Southern Pacific Company, a distance of about 31 miles, is stated to have been let to SHATTUCK & DESMOND WAREHOUSE CO., of Los Angeles and San Francisco.

PIER.—New York, N. Y.—New York Central & Hudson River Ry., Grand Central Station, New York, is stated to be taking figures on a new pier, No. 23, North River, to cost about $150,000. Superstructure will be of steel and wood, with corrugated iron covering, and substructure will be of wood piles.

DREDGES, ETC.—Duluth, Minn.—Duluth-Superior Dredging Co. has awarded contract to NAPOLEON GRIGNON for building two 10-yd. dip and one 20-in. hydraulic dredging machines. He will also build four dump scows of from 800 to 1,000 yards capacity. The dredging company will also either build or buy three tugs.

SMOKE STACKS.—New York, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, 13 Park Row, until 2 p. m., Oct. 11, for furnishing and erecting two steel smoke stacks at the Massapequa Pumping Station, near Massapequa, L. I., and three steel smoke stacks at the Merrick Pumping Station, near Merrick, L. I.

PUMPS, BOILERS, BEAMS, ETC.—Washington, D. C.—Bids are asked by D. W. Ross, General Purchasing Officer, Isthmian Canal Commission, until 10.30 a. m., Oct. 16, for furnishing steam pumps, boilers, manifolds for air drills, steel floor beams, field rivets, wrought, cast and black iron pipe and pipe fittings, lead pipe and fittings, brass and iron valves and cocks, brass screws, pipe tools, gaskets, pig lead, etc.

DITCH WORK.—Moorhead, Minn.—Bids are asked by John Eid, County Audr., until 10 a. m., Oct. 19, for the construction of ditch No. 3 in sections of 100 ft. It approximates as follows: Main ditch, 44,500 ft. long, 95,464 cu. yds.; est. cost, $9,546. Bids will also be received for ditch No. 2, approximating: 29,700 ft. length of main ditch; 90,376 cu. yds.; branch, 7,965 ft. length, 9,172 cu. yds.; est. cost, $9,954.

PILES.—Boston, Mass.—Following bids were received Oct. 3, for furnishing and driving piles on the site of the proposed Girls' Latin School House, Longwood Ave., Back Bay: Whiton & Haynes, Boston, Mass., $11,225; John T. Sculley & Bro., Cambridge, Mass., $9,860; Wm. A. Norton, Boston, Mass., $9,175; Geo. H. Cavanagh, Boston, Mass., $8,500; Cahill Const. Co., Boston, Mass., $8,371.

TRACK.—Boston, Mass.—Following bids were opened Sept. 30 by Bureau of Yards and Docks, Navy Department, Washington, for building 900 ft. of track for traveling locomotive crane as an extension to the present track at the Boston Navy Yard: William L. Miller, 19 Milk St., Boston, $28,839; C. M. Leach, Navy Yard, Boston, $22,500; W. H. Ellis, 17 Milk St., Boston, $23,790; T. H. Gill & Co., 88 Broad St., Boston, $24,440; Coleman Bros., 15 City Sq., Boston, $24,970.

BRICK SUBWAY.—New York, N. Y.—Following bids were opened Oct. 3 by Department of Correction for furnishing all the labor and materials required for proposed new brick subway and installation of new main steam and return lines and connections to the present heating systems of the various pavilions on Rikers Island: T. W. Ryan Const. Co., $27,993; J. H. Dewes, $31,441; E. Rutzler Co., $40,209; R. J. T. Gerstle Co., $39,343; Z. J. Rice, $39,953; Wm. Home Co., $39,973; Behan & Cavanagh, $31,637.

COAL TIPPLES, ETC.—Huntingdon, W. Va.—U. S. Oil & Coal Co., of Cleveland, O., has purchased land along the Ohio River. The company owns a coal plant at Holden, W. Va., and will spend $300,000 in erecting coal tipples and building a line of barges to be used in sending the product of the Holden mines to southern markets. The contract for the erection of the tipples and barges will be let inside of 30 days, and work will be vigorously pushed. It is announced that the company will at once begin opening new mines in the Holden vicinity. In addition to the tipples and coal boats, several hundred coal cars of large size will be built by the company to be used in conveying its product from the mines to the river.

LAMPS, WIRE, LATHES, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until 10 a. m., Oct. 17, for furnishing a quantity of naval supplies, among which are the following: Schedule 133, arc and desk lamps, steel conduit, outlet boxes, wire, wireless clusters, cabinet and distributing boards, electrical supplies, rail bolts, switch stands, hardware, creosoted ties, steel rails, iron pipe, fittings, etc.; schedule 154, double conductor, phosphor-bronze wire, twist drills, slitting saws, reamers, hardware, spruce, sheet copper, Tobin bronze, pig iron, bar steel, pressure hose; schedule 155, incandescent lamps, carbons, etc.; schedule 156, steel rivets, files, screw wrenches, twist drills, hardware and tools, lathes, milling machines, drilling and milling machine, oak, pine, sheet brass, bar steel, frogs and switches, water-closets, etc., smokeless powder packing boxes, supply boxes; schedule 157, copper rivets, hardware, power trimming press, electric deck hoists, tool steel, iron pipe, steel tubing, oakum, oars, sewage discharges, sand, cupola blocks; schedule 158, copper wire, steel conduit and fittings, electrical supplies.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

POWER DEVELOPMENT.—Hawaii.—The Kauai Electric Co., Ltd., Hanalei, Kauai, Hawaii, will develop water of the Wainiha River. The conduit will be 4½ miles long, of which three miles will be tunnel and the rest will be open ditch. The tunnels are 6 ft. wide and 6 ft. high. The static head will be 560 ft. H. A. Jaeger is the contractor for tunnel and ditch work, about ¼ of which work has been done. The Hawaiian Electric Co., A. Gartley, Mgr., will furnish the electrical equipment. The transmission line will be about 30 miles in length. Power will be supplied to the irrigation pumps of the McBryde Sugar Plantation. C. H. Kluegel is Mgr. and Engr.

BUILDINGS, ETC.—Philippines.—The Navy Department has received a cable dispatch from Commander John B. Milton, commandant of the naval station at Cavite, saying that the hurricane in the Philippines Sept. 26 did $90,000 damage to the buildings, plant and craft at the Cavite station. The cost of repairs is as follows: Docks, $27,000; construction, $27,000; hospital, $1,000; engineering, $10,000; equipment, $2,500; supplies, $4,500; ordnance, $16,000. He requests special allotments for each department.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*RESERVOIR DAM, ETC.—Danbury, Conn.—Bids were opened Sept. 25 by Council Water Committee for constructing reservoir dam, forebay and pipe line, the bidders being as follows: (1) W. J. Flannigan, Katonah, N. Y.; (2) Ford & Waldo, New York; (3) Gamble & Hort, Katonah, N. Y.; (4) Peter Sweeney, Danbury, Conn. (will be awarded contract). The material to be handled for embankments consists of tough, gravelly clay; the wood stave pipe line is to have average cut of about 8 ft., and the iron pipe line is to have average cut of about 6 ft.; about 3,000 ft. of macadam on the iron pipe line is to be replaced. A. L. Davis is Cy. Engr. The itemized bids were as follows:

Bids Received at Danbury, Conn., Sept. 25, 1905, by Council Water Committee, for Constructing Reservoir Dam, Forebay and Pipe Line.

Items.	Quantities	(1)	(2)	(3)	(4)
Dam embankment	26,000 cu. yds.	$0.65	$0.68	$0.70	$0.68
Stripping	2,500 "	.35	.40	.30	.45
Rock	200 "	2.50	2.00	2.75	1.85
Seeding and sodding	2,500 sq. yds.	.05	.35	.40	.27
Paving	200 "	.50	1.55	1.25	.62
Concrete	100 cu. yds.	6.00	10.00	7.00	7.65
Gate-house		5,000	5,310	5,690	3,300
Forebay, embankment	30,000 "	.45	.68	.70	.58
Forebay, stripping	13,000 "	.35	.40	.30	.36
Concrete, entrance and exit chambers	600 "	8,500	11,400	9,800	7,392
Spillway, stripping	600 "	.35	.40	.30	.45
Wood stave pipe, 30-in.	6,300 ft.	2.50	3.50	4.65	2.55
Cast-iron pipe, 24-in.	8,300 ft.	5.50	5.50	5.65	4.15
Totals		$113,260	$134,175	$140,110	$105,531

*MAIN SEWERS.—Lexington, Ky.—Following bids were opened Sept. 13 by Mayor Thomas A. Coombs for constructing main sewers: Hering & Fuller, Consult. Engrs., New York; (1) HILL-GAYNARD CONSTRUCTION CO., East St. Louis, Ill (awarded contract); (2) Guild & Co., Chattanooga, Tenn.; (3) Alsop Engineering & Construction Co., Los Angeles, Cal.; (4) Jas. McQuade & Co., Pittsburg, Pa.; (5) Keeling & Ridge Co., Pittsburg, Pa.; (6) A. L. Patterson & Co., Inc., Macon, Ga.; (7) Mason & Hoge Co., Frankfort, Ky.; (8) Paul & Kershner, Dayton, O.:

BIDS RECEIVED AT LEXINGTON, KY., SEPTEMBER 13, 1905, BY MAYOR THOMAS A. COOMBS, FOR CONSTRUCTING MAIN SEWERS.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
8-in. pipe	5,780 ft.	$0.44	$0.45	$0.53	$0.38	$0.50	$0.56	$0.80	$0.65
10-in. pipe	3,350 "	.58	.55	.65	.62	.80	.60	.85	.70
12 " "	10,000 "	.80	.95	.90	.95	1.00	1.00	1.20	1.50
18 " "	2,900 "	1.24	1.45	1.45	1.50	1.35	2.25	2.10	1.50
20 " "	4,300 "	1.34	1.50	1.80	1.40	1.50	1.80	2.20	1.50
24 " "	7,000 "	1.93	2.50	2.33	2.60	2.00	3.50	3.10	2.50
5-in.-Y on 8-in.	35	.32	.22	.50	.50	.50	.40	.90	.50
5 " " 10 "	90	.48	.33	.70	.50	.75	.60	.75	.70
5 " " 12 "	160	.88	.50	1.15	.65	1.00	.95	.90	1.00
5 " " 18 "	70	1.10	1.00	1.30	1.25	2.00	1.05	2.05	1.10
5 " " 20 "	75	1.35	1.30	1.55	1.60	3.00	1.30	2.45	1.30
5 " " 24 "	150	1.93	2.00	2.50	2.75	4.00	1.95	3.10	2.00
5-in. ⅛ bends	400	.30	.17	.35	.36	.25	.25	.45	.25
5-in.-Y-branches	400	.62	.30	.85	.50	.50	.75	.80	.75
5-in. pipe	5,400 ft.	.41	.30	.37	.30	.30	.45	.50	.60
5-in. pipe-risers	400 ft.	.09	.15	.17½	.15	.25	1.20	.30	.15
Cast-iron pipe	13 tons	33.00	35.00	46.00	40.00	50.00	45.00	42.50	40.00
Manholes	116	57.81	50.00	43.00	35.00	50.00	62.50	50.00	40.00
Sp. Manhole	1	111.76	200.00	180.00	125.00	75.00	150.00	165.00	100.00
Special flush tanks	2	100.00	140.00	120.00	100.00	100.00	150.00	150.00	150.00
Standard flush tanks	2	85.00	75.00	78.00	60.00	75.00	90.00	125.00	100.00
Rock excavation	8,500 cu. yds	2.25	2.10	1.87½	3.00	3.00	2.50	2.00	4.00
Extra earth excavation	600 "	.30	.25	.60	.80	1.50	1.50	.75	1.00
Extra filling	3,200 "	.35	.25	.54	.40	.50	.40	.60	1.00
Broken stone	260 "	1.20	1.00	1.50	1.00	.25	2.00	1.75	1.50
Concrete	355 "	5.88	5.00	7.50	6.00	5.00	8.50	8.00	6.00
Lumber	7,000 ft., B.M.	27.10	25.00	34.50	30.00	50.00	30.00	30.00	25.00
Piles	4,900 lin. ft.	.31	.15	.20	.35	.45	.50	.40	.25
Sheathing	130 M. ft. B.M.	26.00	15.00	20.00	25.00	10.00	20.00	28.00	15.00
4-in. tile drain	5,650 ft.	.09	.05	.11½	.10	.10	.15	.10	.15
Macadam paving	10,000 sq. yds.	.37	.35	.60	.15	.50	.30	1.00	.50
Brick paving	1,160 "	.62	2.25	.72	.35	.50	2.75	1.10	1.00
Totals		$79,813	$82,469	$85,247	$88,330	$90,780	$106,937	$109,500	$111,708

*GUNNISON TUNNEL.—Montrose, Colo.—Following bids, based only on receiving all or none of the contract, were opened Sept. 26 by U. S. Reclamation Service for completion of Gunnison Tunnel: (1) J. G. White & Co., 43 Exchange Pl., New York; (2) John McKechney, 288 East Ohio St., Chicago, Ill.; (3) A. J. Raisch, 26 Montgomery St., San Francisco, Cal.; Oliver Iron & Steel Co., Pittsburg; (15) J. C. Kendall, Washington, D. C.: Class 1, 40,000 lbs. track bolts, 4½ × ¾-in., per 100 lbs.—(3) $2.82, (6) $3.08, (13) $2.60, (14) $2.80; Class 2, 200,000 lbs. railroad track spikes, 5½ × 9-16-in., per 100 lbs.—(2) $2.01, (5) $2.25, (6) $3.08; (10) $2.42, (11) $2.3287, (13) $1.955; Class 3, 25,000 braces for 70-lb. rail, each—(1) $.08012, (3) $.135, (4) $.12, (5) $.125, (6)

Bids Received (Based Only on Receiving All or None of the Contract at Montrose, Colo., Sept. 26, 1905, by U. S. Reclamation Service, for Completion of Gunnison Tunnel.

Tunnel	Quantities.	(1)	(2)	(3)
Class I	11,500 lin. ft.	$48.50	$56.00	$65.00
Class II	1,200 "	52.00	59.00	75.00
Class III	10,000 "	62.75	53.59	85.00
Class IV	3,500 "	61.00	72.74	95.00
Lining with concrete the portion of tunnel already excavated:				
Class I	1,500 "	9.00	4.00	12.00
Class II	100 "	11.50	7.00	17.00
Class III	1,400 "	12.50	13.68	17.00
Class IV	1,400 "	17.00	14.91	17.00
Excavation for enlarging tunnel section:				
Classes I. and II	3,000 cu. yds.	8.00	7.00	12.00
Totals		$1,541,100	$1,573,016	$2,123,300

WOOD BLOCK PAVEMENT.—New York, N. Y.—Bids were received Sept. 28 by John F. Ahearn, Pres. Manhattan Borough, for regulating and repaving on various sections of lower Broadway, the totals for this work being under Streets and Roads. Bids received for paving roadway of West Broadway, from Dey St. to West Fourth St., were as follows: (1) Eppinger & Russell Co., 68 Broad St.; (2) Franklin Contracting Co., 1 Hudson St.; (3) Republic Construction Co., 18 Broadway (bid informal); (4) U. S. Wood Preserving Co., 29 Broadway: $1.024 and $1.224, (9) $.12, (11) $.0968 and $1.078, (12) $.108 and $.141, (13) $.128 and $.14; Class 4, 100,000 tie plates, 5 × 8-in. to fit 70-lb. rail, each—(2) $.0398, (5) $.077, (10) $.0798, (12) $.0821, (13) $.071 and $.0957; Class 5, 140 frogs for 70-lb. rail, each—(1) $21.25, (4) $22.55, (5) $28.20, (6) $16.30, (9) $22.30, (11) $19.73, $28.95 and $20.62, (12) $21.83, (13) $21.90, (15) $25; Class 6, 150 switches for 70-lb. rail, each—(1) $35, (4) $40.50, (5) $43.65, (6) $31.94, (9) $26.75, (10) $36.50 and $43.15, (11) $36.69 and $46.50, (12) $36.65, (13) $16.65 and $21, (15) $45;

Bids Received at New York, N. Y., Sept. 28, 1905 by John F. Ahearn, Pres. Manhattan Borough, for Regulating and Repaving in Various Sections of Lower Broadway.

Items.	Quantities.	(1)	(2)	(3)	(4)
Wood block pavement	28,919 sq. yds.	$3.48	$3.29	$3.20	$3.17
Old asphalt pavement to be removed	8,370 "	.21	.14	.12	.13
Concrete including mortar bed	4,237 cu. yds.	6.75	6.90	6.90	6.91
New bluestone curbstone, furnished and set	11,660 lin. ft.	1.00	1.00	.96	.95
Old bluestone curbstone, redressed, rejointed and reset	710 "	.40	.50	.40	.35
Noiseless covers, complete, for sewer manholes, furnished and set	41	18.00	20.00	18.00	18.00
Noiseless covers, complete, for water manholes, furnished and set	74	18.00	20.00	.....	18.00
Old paving blocks, to be purchased by the contractor and removed	20,549 sq. yds.	.70	.65	.90	.60
Totals		$159,394	$154,022	.....	$147,924

TRACK SUPPLIES.—Washington, D. C.—Following bids were received Sept. 29 by General Purchasing Officer, Isthmian Canal Commission, for track supplies: (1) Morden Frog & Crossing Co.; (2) Woodward, White & Co., New Orleans, La.; (3) A. Baldwin & Co., New Orleans, La.; (4) Buda Foundry & Mfg. Co., Chicago; (5) Alabama Frog & Switch Co., Anniston, Ala.; (6) R. C. Hoffman & Co., Baltimore; (7) George C. Thomas, New York; (8) National Lock Washer Co., Newark, N. J.; (9) Ajax Forge Co., Chicago; (10) F. S. Banks & Co., New York; (11) R. W. Geldheart, New York; (12) Motley, Green & Co., New York; (13) United States Steel Products Export Co., New York; (14) Class 7, 50,000 washers, wood fiber, ¼-in., per 1,000—(2) $12.90; Class 8, 50,000 spring washers, ⅝-in., per 1,000—(2) $4.95, (3) $6.91, (5) $5.24, (7) $5, (8) $5.10, (11) $6.60.

INDUSTRIAL NOTES.

THE RAYMOND CONCRETE PILE CO., 135 Adams St., Chicago, reports that its system of pile foundations will be used in the substructure of the new bridge to be built over the Ohio River at Ironton, O., by the Cincinnati, Hamilton & Dayton Ry.

THE LINK-BELT ENGINEERING CO., of Philadelphia, is using pressed steel in the manufacture of elevator buckets. The new buckets, made in one piece free from seams and rough surfaces, are from 20 to 40% lighter than malleable iron buckets of corresponding sizes.

THE SPRAGUE ELECTRIC CO., 524 W. 34th St., N. Y., has placed on the market the flexible steam armored hose. This hose is made so it will not kink and the armor eliminates the destructive strain of expansion, entirely encases the rubber lining and protects it from external injury.

THE ST. THOMAS ACETYLENE MFG. CO., LTD., St. Thomas, Ont., Can., has been incorporated in Canada as above, and in the U. S. as the General Gas, Acetylene & Electric Co. The capital stock is $200,000. The companies will make and sell the Stanworth pressure acetylene generator. Geo. K. Morton is President.

THE J. E. BRIGGS LABOR SAVING SPECIALTY CO., of Waterloo, Ia., has been organized by J. E. Briggs and R. A. Law to manufacture the former's patent dump wagons, hoppers and concrete spreaders for contractors' use. These three devices were described and illustrated in Engineering News, Sept. 7, 1905.

THE DAYTON PNEUMATIC TOOL CO., of Dayton, Ohio, has received an order from the American Car & Foundry Co., for fifty of their "Green" Long Stroke Riveting Hammers. The tools on this order are to be all one size, having a piston diameter of 1¼ × 8-in. stroke, and are for use in the new steel underframe department of the American Car & Foundry Co., of Madison, Ill.

A. LESCHEN & SONS ROPE CO., St. Louis, Mo., reports that on June 26, 1905, Lt. R. E. Peary, U. S. N., ordered the following: 1 hawser, 100 fathoms, ⅝-in. diameter patent flattened strand Hercules hoisting rope; 1 hawser, 250 fathoms, ½-in. diameter patent flattened strand Hercules hoisting rope. This material was shipped direct to the steamer "Roosevelt," New York City.

THE ROBINS CONVEYING BELT CO., of New York, has recently obtained contracts for large coal pockets and conveying machinery for the Erie R. R. Co., at Buffalo, N. Y., and at Port Jervis, N. Y. They are also completing orders for belt conveyors intended for paper mills in Sweden and have an order under way from the Power & Mining Machinery Co., for a belt conveyor for handling ore.

THE HECLA PORTLAND CEMENT & COAL CO.'S plant, property and good-will is to be offered for sale again at auction, the date having been postponed to Sept. 27, 1905. The receiver is the Detroit Trust Co., of Detroit, Mich. The property was formerly offered for sale on June 7, 1905, as advertised in Engineering News. The upset price was $950,000, but this has been reduced to $750,000.

THE ROBINS CONVEYING BELT CO., of New York, has recently secured an order from the Orlando Water & Light Co., of Orlando, Fla., for a belt conveyor for handling wet muck. Among its other recent contracts are the orders for a conveyor from the C. W. Hunt Co., of West New Brighton, and an order for five belt conveyors for the crushing plant of the Semet Solvay Co., Milwaukee, Wis.

McCAGHEY & LINEHAN, of Little Falls, N. Y., contractors, have dissolved partnership, and the P. B. McCaghey Co. has been formed by P. B. McCaghey, W. J. Benigan, of Little Falls, and M. H. and J. E. McCaghey, of Sandy Hill, N. Y. The new company has received two contracts from the Paul Smith Hotel Co., of Paul Smith, N. Y., for two electric plants, one at Union Falls and one at Franklin Falls.

SMITH & ROBINSON, ENGRS., who have recently opened an office at 605 Provident Bldg., Philadelphia, Pa., state that they have been retained as engineers for three steam heating contracts for Chas. C. I. Baldi Bros. & Co., one a large three-story cigar factory, one a five-story factory and one an undertaking establishment and stable. They have also been occupied with a number of clients in reference to machine and boiler designs.

THE LONDON BRANCH OF THE BUFFALO FORGE CO., of Buffalo, N. Y., has procured an order for heating and ventilating the various buildings of His Majesty's Dock Yards at Portsmouth. There are seven separate plants, each involving the same capacity of apparatus and of large size. The engineers of the Buffalo Forge Co.'s London office in studying the requirements and existing conditions of the buildings decided upon the use of fans especially designed therefor. Likewise the 56 heaters to be used in the installation are of special construction.

THE DAVID BELL ENGINEERING WORKS, of Buffalo, N. Y., reports sales of a number of its "standard guide" steam hammers to the Government. Three were sent to Panama by order of the Canal Commission, and others have been purchased for the navy yards at Boston, New Orleans and Mare Island.

THE BRODERICK & BASCOM ROPE CO., St. Louis, Mo., has an exhibit at the Lewis & Clark Exposition made up from its products, such as a wire rope fence made up of circular designs, a large spool of cable of 1¼ ins. diameter and 32,000 ft. long, intended for the Metropolitan St. Ry. Co., of New York, and pyramids of wire rope paper weights, etc.

THE U. S. WIND ENGINE & PUMP CO., Batavia, N. Y., is building a one-story stone building, 50 × 150 ft., to be used in the manufacture of its steel structures and substructures for railroad water tanks, and sprinkler tanks erected by factories for fire protection. The roof will be of the steel truss type, and will be constructed and put on by the company itself. The contract for building has been let to local contractor.

THE GROWING POPULARITY OF MECHANICAL STOKERS for large power plants is indicated by the fact that a single manufacturer, the Westinghouse Machine Co., reports orders during a single month past for no less than 51 of its Roney mechanical stokers. The sizes range from 54 × 20-in. grate to 132 × 26-in. grate, the largest of the orders being that of the Pennsylvania Railroad for six 132 × 26-in. grate stokers and five 100 × 20-in. grate stokers.

THE ROBINS CONVEYING BELT CO., New York, is about to complete several large expert shipments of belt conveyors intended for lead works in Belgium. They are also constructing a conveyor and elevator for the Union Fuel Co., of San Francisco, and two belt conveyors for the Cranberry Furnace Co. The storing and reclaiming bridge for the Semet Solvay Co. which the Robins Co. is erecting at Milwaukee is about ready to operate and will probably handle coal before the end of the first week in September.

THE BURY COMPRESSOR CO., of Erie, Pa., states that the export, southern and western trade is gradually expanding in volume. Among the several orders received from France and Belgium, through Fenwick Freres & Co., during the month of September, is included one for the French Government. This company has a compressor on exhibit at the International Exhibition at Liege, Belgium, and it is doubtless responsible for some of the sales in that section.

THE BUFFALO TESTING LABORATORY, 702 Ellicott Square, Buffalo, N. Y., has been incorporated, the president being George A. Ricker, Civil Engr., and the vice-president, Prof. Nathaniel W. Shed, Chemist and Metallurgist of the Buffalo Foundry Co. Frederick M. Turner is secretary. The object of the corporation is to make physical, chemical and electrical tests of all kinds of materials, determining the strength of different metals and their chemical composition. The laboratory will adjoin the buildings of the Buffalo Foundry Co. on East Ferry St.

THE STIRLING CO., with New York offices at 111 Broadway, has acquired the plant and all of the unfilled orders and contracts for boilers of the Aultman & Taylor Machinery Co. This is preliminary to the organization of a new company, to be known as the Stirling Consolidated Boiler Co., which is about to be formed to acquire the water-tube boiler business and plants of the Stirling Co., at Barberton, O., and the Aultman & Taylor Machinery Co., at Mansfield, O. Pending the organization of the new corporation the Stirling Co. will have charge of the water-tube boiler business of the Aultman & Taylor Co., at Mansfield, and will operate it, assuming all contracts and executing all orders.

THE SULLIVAN MACHINERY CO., of Chicago, reports the addition of two branch offices to its list, one at Knoxville, Tenn., and one at Joplin, Mo. The Knoxville office, with quarters in the Houston Building, is in charge of Mr. E. L. Thomas, for several years connected with the New York branch. Rock drills, stone channelers and quarrying machinery are carried in stock. Mr. S. A. Allison, who has been the company's representative at Joplin for the past two years, now becomes district manager at that point. A stock of Sullivan compressors, rock drills and duplicate parts and supplies is carried at the company's warehouse at Joplin. The new office is in the Keystone Hotel block, corner of Fourth and Virginia Ave.

THE ALLIS-CHALMERS CO., of Chicago, Ill., has shipped to San Francisco a consignment stock of Gates rock and ore breakers of various styles and sizes, together with standard repair parts which may be required for Gates breakers which that company has already installed in various plants in California and neighboring states. It will be of interest to the customers of the Allis-Chalmers Co., who have in use any of their Gates rock and ore breakers, to know that by this arrangement they will be able to secure prompt delivery of repair parts for their machines. This venture will also enable the company to make immediate shipment of complete crushers required in that part of the country, or in the islands of the Pacific. The company's San Francisco offices are located in the Rialto Building.

THE PARKER BOILER CO., Pennsylvania Bldg., Philadelphia, Pa., have closed contracts with the following for Parker boilers: Philadelphia Rapid Transit Co., 16 double-ended boilers with superheaters and stokers for its new power station on the Delaware River. This station is designed to contain 64 of these boilers, each unit being capable of developing 1,000 boiler HP. without forcing. This is the fifth order from this company, who already has over 10,000 HP. in use. J. B. Stetson Co., 8 double-ended boilers to develop 5,000 HP. without forcing. Single-ended boilers as follows: Bergdoll Brewing Co., Phila., four 325 HP.; California Pottery Works, one 175 HP.; Shreve Bldg., San Francisco, two 85 HP.; San Francisco Gas & Electric Co., one 262 HP.; Presidio Fruit Canning Co., San Francisco, one 106 HP.; M. Van Orden Co., Houghton, Mich., one 100 HP.; St. Mary's Mineral Land & Canal Co., Toivola, Mich., one 100 HP.; Champion Copper Co., Painesdale, Mich., one 250 HP. for 300 lbs. pressure.

THE STANDARD PAINT CO., 100 William St., New York, reports that a large shipment of Ruberoid roofing some time ago went to Chinde, East Africa. It had been ordered in rolls two-thirds the usual size, in order to make them light enough in weight to accommodate the native carriers, who carry them into the interior of British East Africa, and who object strenuously to superfluous labor. The manufacturers of the roofing received the strange request that on all future orders, the outside label should be pasted on the end of the rolls, instead of at the center, as is usual. The reason given for this request is that the carriers always carry the roofing on their heads, and it was found they thought the label which was stuck on the middle of the roll was meant to show them where to put their heads. They therefore molded a hollow in the roll, without damaging the roofing, so that it just fitted the shape of their heads, and so carried it very easily. The perspiration from the negroes' heads, however, completely destroyed the label and made it unreadable, so that when the roofing reached its destination they were unable to distinguish the different plys, etc. The intense dry heat of Africa has had no injurious effect upon Ruberoid roofing.

THE B. F. STURTEVANT CO., of Boston, reports the following recent contracts: For school house heating and ventilation, the Dewitt Clinton High School, N. Y.; the Three Rivers High School, Three Rivers, Mich.; the Crescent High School, Louisville, Ky., and the Plainfield High School, Plainfield, N. J.——Parker & Young Co., Barton Landing, Vt., manufacturers of piano skeletons, sounding boards, etc., has just placed with the Sturtevant Co. an order for the equipment of five standard lumber dry kilns. When this equipment is completed, Sturtevant apparatus will furnish air for 18 standard kilns, each 85 ft. long, 17 ft. wide and 9 ft. high. In addition, two apparatus are used only for heating the buildings.——The induced draft equipment which is to be installed for the Hammermill Paper Co., Erie, by the Sturtevant Co. will consist of two steel plate, engine-driven fans, either of which will be of sufficient capacity for carrying 75% of the total boiler output, which will amount to 2,500 HP. When combined in operation the entire load will be carried when running both fans at only 2-5 capacity.——Fortune Brothers Brewing Co., Chicago, Ill., are to install, in connection with their malt drying system, a large steel-plate electric fan, built by the Sturtevant Co.——The heating and ventilating equipment of the new Fort Pitt Hotel, Pittsburg, will consist of four steel-plate fans and two steel-pipe heaters, built by the Sturtevant Co.——The Sturtevant Co. is to install the hot-blast heating and ventilating equipment for the addition to the American Pulley Co.'s plant at Philadelphia.

THE B. F. STURTEVANT CO., of Boston, Mass., state that the magnitude of the heating proposition in a large railroad shop is well exemplified in the case of the new shops of the Southern Railway Co., at Spencer, N. C. The machine shop alone contains 4,500,000 cu. ft., and requires for its heating two special steel plate fans, 9½ ft. in diameter, driven by 10 × 10 horizontal engines and installed in connection with a total of about 21,000 ft. of 1-in. pipe massed in individual heaters. The entire equipment was furnished by this company, and is designed to maintain a temperature of 60° when the outdoor temperature is 10° F. Distribution is made through a system of overhead piping with discharge pipes leading down to within about 10 ft. of the floor. Also that the New Orleans Railways Co., of New Orleans, La., has, through its engineers, Messrs. Sanderson & Porter, of New York City, recently purchased from the company, six large economizers which will be unique in that they are being built to withstand the highest pressure to which any economizer is known to have been subjected. All pipes are being tested to 600 lbs. pressure before they leave the works; and each section is tested to 500 lbs. after the pipes are inserted. There is but a single gasket joint running through the machine; this joint being made by two very heavy flanges with a special gasket which has 2¾-in. plane surface through the entire circle.

THE CALUMET & ARIZONA MINING CO., of Bisbee, Ariz., is installing a Sullivan Corliss cross-compound steam two-stage air compressor, with a total piston displacement of 3,060 cu. ft., which, on account of the altitude at which the compressor operates, is equivalent to an actual delivered capacity of 2,700 cu. ft. of free air per minute, against a terminal pressure of 100 pounds per sq. in., while running at 83 R. P. M. This machine is expected to attain a very high efficiency, being designed to run condensing and to operate when carrying its most economical load on 15.2 pounds dry steam per I. HP. per hour. The steam cylinders are 17 ins. and 34 ins. and air cylinders 20 ins. and 34 ins. in diameter, with a common stroke of 42 ins. Rolling inlet valves, controlled by independent eccentrics, are used on both the high and low pressure air cylinders. Rolling discharge valves are also used on the low pressure air cylinder. In addition to these, a number of automatic poppet discharge valves are used on the same cylinder. The high pressure air cylinder is equipped with a full set of removable automatic poppet discharge valves, which act in a direction parallel with the steam piston rod. An interesting feature is the automatic oiling system, which lubricates all the working parts regularly and without the attention of the engineer. The machine will be used for operating rock drills and other pneumatic tools about the mines. The company already has 3 Class WB-2 Sullivan straight-line compressors, giving a total air supply of about 5,700 cu. ft. per minute.

JOHN M. CARSON, CHIEF OF THE BUREAU OF MANUFACTURES, is addressing the following circular to manufacturers and exporters: The Department of Commerce and Labor is desirious of securing the cooperation of manufacturers and other persons interested in the efforts being made by this department, through the Bureau of Manufactures, to extend the foreign trade of the United States. In furtherance of this work, it is proposed to establish a comprehensive card index which will enable the Department, upon application, to furnish information desired by manufacturers, or by intending purchasers, and it is contemplated to extend the system, if the necessary authority shall be granted by Congress, to our principal consulates. To enable the Bureau to prepare such an index, you are respectfully requested to fill in the accompanying blank, and furnish briefly any additional information which you may desire to have recorded in connection with your business. (1) Name and address (main office); (2) location of branch establishments; (3) description of product; (4) capital; (5) capacity per day, month, or year; (6) where product is sold (if abroad, give countries and ports to which shipped); (7) any other information.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 118.

SEWAGE PURIFICATION WORKS.

Columbus, Ohio.

Sealed proposals for furnishing the labor and material for the construction of sewage purification works for the City of Columbus, Ohio, and having a nominal capacity of 20,000,000 gallons per day, will be received by the Board of Public Service until 12.00 o'clock noon, standard time, November 2, 1905, in accordance with plans and specifications on file in the office of said Board and in the custody of Julian Griggs, Chief Engineer, Department of Public Service.

Each proposal must be accompanied by a certified check on a Columbus bank, or a proposal bond, for an amount equal to at least ten per cent. of the bid. A bond for fifty per cent. of the amount of the contract will be required of the successful bidder.

The works will cover a total area of about 46 acres and will consist principally of 6 septic tanks having a total capacity of 8,000,000 gallons, 4 sprinkling filters having a total area of 10 acres, a gate house, 2 open settling basins having a total capacity of 4,000,000 gallons, a pump house, minor appurtenances and a levee around the works about 5,000 feet long.

The principal quantities of work involved are: Excavation, 126,450 cu. yds.; concrete, 24,345 cu. yds.; vitrified sewer pipe, 3-inch to 24-inch, 560,030 lin. ft.; valves and sluice gates, 4-inch to 66-inch, 172; and broken stone filtering material, 82,000 cu. yds.

Copies of the specifications and plans can be seen now at the office of the Chief Engineer. Copies of the specifications can be had upon application after October 10th. Copies of the plans on sheets 30-inch by 40-inch, 32 in number, will be loaned only to prospective contractors applying in person and upon a deposit of $100.00 for each set, and the signing of a receipt for the same, agreeing to return said plans to the City on or before November 4, 1905. Deposits for plans will be returned when plans have been surrendered as above noted. A copy of the plans and specifications can be seen after October 12th, at the office of Hering & Fuller, 170 Broadway, New York.

By order of the Board of Public Service.

CHARLES H. FRANK,
Secretary,
14-4t Columbus, Ohio.

PROPOSALS FOR AMMUNITION HOISTS.—Office Chief of Engineers, U. S. Army, War Department, Washington, D. C., Oct. 4, 1905.—Sealed proposals for furnishing and delivering chain ammunition hoists will be received here until 2 p. m., Nov. 3, 1905, and then publicly opened. Information furnished on application here. FREDERIC V. ABBOT, Major, Engineers. 14-4t

U. S. ENGINEER OFFICE, Army Building, New York, September 27, 1905.—Sealed proposals for dredging in Port Jefferson Harbor, Huntington Harbor, Flushing Bay and Canarsie Bay, N. Y., will be received here until 12 m., October 12, 1905, and then publicly opened. Information furnished on application. W. R. LIVERMORE, Col., Engrs. 13-2t

GOVERNOR'S ISLAND, N. Y. H., Oct. 3, 1905.—Sealed proposals, in triplicate, for the construction of a post hospital at Fort Wood, N. Y. H., will be received here until 11 A. M., Oct. 18, 1905. U. S. reserves right to reject any or all bids. Information furnished on application. Envelopes containing proposals will be endorsed: "Proposals for post hospital at Fort Wood, N. Y. H." TRABER NORMAN, Q. M. 14-2t

NOTICE TO CONTRACTORS.

Perrysburg, O.

Sealed proposals, properly endorsed on envelope, will be received by the Board of Trustees of Public Affairs of the village of Perrysburg, Ohio, until 12 o'clock noon of Wednesday, October 18th, 1905, and then publicly opened and read by the clerk of said Board, for furnishing all materials and labor and erecting complete, on foundations to be prepared by the Board.

One 40,000 gallon steel tank on steel tower.

Also the following approximate quantities of cast iron pipe of standard weights, special castings, hydrants, and valves, viz.:

92.4 tons 4" pipe.
125.4 " 6" "
53.5 " 8" "
6.0 " 10" "
——
277.3 tons total.
3,500 pounds special castings.
23 fire hydrants.
50 valves.

Delivered f. o. b. cars Perrysburg, and all according to specifications now on file with said Board.

Specifications and form of proposal can be obtained from the Clerk of the Board at Perrysburg, or from The Riggs & Sherman Company, Engineers, 613 Nasby Building, Toledo, Ohio.

The Board reserves the right to reject any or all bids.

R. R. HARTSHORN, Clerk.
Perrysburg, Ohio,
September 27, 1905. 14-2t

CAST IRON WATER PIPE.

Los Angeles, Cal.

Sealed proposals will be received by the Board of Water Commissioners of the City of Los Angeles, California, until 3.30 p. m., of October 16th, 1905, for furnishing and delivering f. o. b. cars at Los Angeles approximately 5,050 tons of Cast Iron Water Pipe as follows:

750	Pcs.	30"	to weigh	3,600	lbs.	each.
285	"	24"	" "	2,880	"	"
640	"	20"	" "	2,100	"	"
220	"	18"	" "	1,800	"	"
220	"	16"	" "	1,500	"	"
1,250	"	12"	" "	1,000	"	"
1,250	"	10"	" "	800	"	"
1,000	"	8"	" "	540	"	"
2,000	"	6"	" "	380	"	"
4,000	"	4"	" "	240	"	"

A certified check for five per cent. of the amount of each bid, made payable to Jno. J. Fay, Jr., President of the Board, is to accompany same.

Specifications can be obtained upon application to Jas. P. Vroman, Secretary Board of Water Commissioners, 440 So. Hill St., Los Angeles, Cal.

The Board reserves the right to reject any or all bids, in whole or in part.

WM. MULHOLLAND, Supt.
Los Angeles, California, Sept. 26th, 1905. 14-1t

SEWERAGE SYSTEM.

Lake City, Florida.

Sealed proposals will be received by the Board of Bond Trustees of the City of Lake City, Florida, until 12 o'clock noon, October 20th, 1905, for constructing a sanitary sewerage system in the city of Lake City, Florida, and for furnishing material for same. Work will embrace approximately seven miles of pipe sewers from six to twelve inches in diameter. A certified check for one thousand ($1,000) dollars or a satisfactory guaranteed bidder's bond must accompany each bid. Plans and specifications will be on file and may be seen at the office of the Engineer, and copies of the specifications and forms, etc., may be obtained from the Chairman of the Board of Bond Trustees. The right is reserved to reject any and all bids.

J. C. SHEFFIELD,
Chairman Bond Trustees,
Lake City, Florida.

W. W. LYON,
Consulting Engineer,
Palatka, Florida. 13-2t

SITUATIONS OPEN

WANTED.—Young man with some technical education for assistant editor and advertising solicitor. Address "Z. A. 14," Engineering News, New York. 14-1t

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